

# bulletin

Winter 2018–2019

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[mobot.org](http://mobot.org)



MISSOURI BOTANICAL GARDEN





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Thank you! Your membership provides critical support for our international and local plant science and conservation work, and Garden memberships and contributions provide 23% of our annual operating funds.  
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### hours and admission

For hours and admission prices at our three locations, visit [mobot.org](http://mobot.org), [butterflyhouse.org](http://butterflyhouse.org), and [shawnature.org](http://shawnature.org).

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### on the cover

A muffling mist settles on the lake in the Japanese Garden along the path of the Journey to Well-Being. Photo by Kent Burgess.

### credits

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preserve and enrich life.*

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# from the president



Winter at the Missouri Botanical Garden, the Sophia M. Sachs Butterfly House, and Shaw Nature Reserve is anything but a quiet time. Many of the plants are dormant, but there is still much to see and do (see page 8). Garden Glow and Gardenland Express at the Garden and Winter Jewels at the Butterfly House have become regular and welcome parts of the holiday tradition for many local families. Fall winter classes are in full swing. And the loss of leaves and occasional blanket of snow allow the structural beauty of our landscapes to shine. I hope you will visit often this winter.

November and December are busy months for all, full of activities from parties and gatherings to shopping trips to preparing your home for the holidays, and it is hard to add something else to the to-do list. But it is times like these—when spending time in nature can be particularly rewarding—that make the practice of mindfulness in nature an appealing idea. The Therapeutic Horticulture team has developed a Journey to Well-Being program to help alleviate some of life’s stresses. Read about the program and its many benefits (see page 10).

If you have visited the recently opened Stephen and Peter Sachs Museum or Tower Grove House during the holidays, or if you have asked for help at the Visitor Engagement Station on the 2nd floor of Ridgway Visitor Center, chances are you have had an encounter with one of the Garden Docents. This year the Docents program celebrates its 50th anniversary (see page 14). What started as a group of female-only guides for school children has evolved into a thriving program that provides expert training for hundreds of volunteers (male and female) who help make our visitors’ experience of the Garden that much richer. Do take advantage of this remarkable resource.

With your ongoing support, the Garden continues to be a world leader in plant discovery, science, horticulture, and conservation. Thanks to you, the Garden, Butterfly House, and Nature Reserve continue to be top destinations for visitors from near and far to connect with plants. We look forward to yet another year of wonderful opportunities to help bring you closer to the natural world.

Dr. Peter Wyse Jackson, *President*



# what's new?



## Garden President Re-elected Chair of GPPC

Garden President Dr. Peter Wyse Jackson was re-elected chair of the Global Partnership for Plant Conservation at a meeting of the group in South Africa. The consortium of plant and conservation agencies is working to implement the Global Strategy for Plant Conservation—part of a broader push by the United Nations to achieve specific plant conservation targets by 2020. At the 2018 conference in Cape Town, the group discussed the future of those goals beyond the 2020 benchmark.



## Shaw Nature Reserve Team Receives Awards

Some Shaw Nature Reserve team members were among the winners of the Missouri Prairie Foundation 2018 Awards. The 52-year-old prairie conservation organization and land trust honored champions of prairie conservation on August 4 at its annual dinner in Columbia. Scott Woodbury, Manager of Horticulture, was awarded Grow Native's Native Plant Pioneer Award. Nature Reserve volunteers Ann Earley and Bob Siemer were awarded Prairie Volunteers of the Year.



## Community Recognizes Hospitality Heroes

Tad Yankoski, Entomologist at the Butterfly House, and Greg Rohde, Visitor Services Attendant at the Garden, have been designated Hospitality Heroes by Explore St. Louis. Yankoski has worked at the Butterfly House for six years and Rohde, who started as a volunteer, has worked at the Garden full-time since 2015. The Hospitality Hero Recognition Program is the Explore St. Louis frontline employee recognition program designed to stimulate and reward exceptional service by hospitality industry employees. Frontliners who best exemplify our community's ongoing commitment to great service are designated Hospitality Heroes. Yankoski, Rohde, and the rest of the winners were recognized at a Hospitality Heroes Awards Luncheon on September 13.



From left to right: Betsy Crites, Jennifer Hartley, Sheila Voss, Jennifer Wolff, Aileen Abbott, Catrina Adams, and Jessica Kester.

## Education Staff Presents in Warsaw

Members of the Garden's Education division traveled to Poland in September for the 2018 International Congress on Education in Botanic Gardens. The summit, held at the University of Warsaw Botanic Garden, covered a wide range of subjects surrounding environmental education, with a focus this year on nature in cities. Staff from the Garden and Shaw Nature Reserve presented on topics such as visitor engagement, nature-based learning, and reaching new audiences. The Missouri Botanical Garden was also a sponsor of the event.



## Board of Trustees Elects New Member

The Missouri Botanical Garden Board of Trustees elected a new member at its meeting in September:



**David J. Kowach**

President, Wells Fargo  
Advisors



are now being finalized for the permanent headhouse and office building. Staff have already begun relocating supplies and materials to the nursery for plant management and growth. More than 5,000 seeds, cuttings, seedlings, and established plants will move to the nursery before the end of the year. Hardy perennial plant species collected by our Horticulture team in Kyrgyzstan will be among the first cultivated in the nursery facilities. To learn more, visit [mobot.org/hardyplantnursery](http://mobot.org/hardyplantnursery).

## Garden for the World Update: Hardy Plant Nursery

The Oertli Family Hardy Plant Nursery is on track to begin plant propagation and production before the end of the year. The final construction elements are being completed on the main greenhouse spaces and shade structure, including areas for both seed and cuttings propagation. Designs



## New Exhibit Coming to Sachs Museum

A collection of colorful botanical illustrations will be on display in the Stephen and Peter Sachs Museum. *Botanical Art Worldwide: America's Flora* features 46 botanical artworks of America's native plants, from the iconic saguaro cactus to rare species such as lady's slipper orchids. The traveling exhibit from the American Society of Botanical Artists is part of a worldwide collaboration to increase awareness and appreciation for plant diversity through botanical art. *Botanical Art Worldwide: America's Flora* will be open February 1–May 5 in the South and Lower Level Galleries in the Sachs Museum.



## Garden Hosts 9th Corpse Flower Bloom

For the 9th time in six years, the Garden played host to the infamous stink of an *Amorphophallus titanum*, commonly known as a corpse flower. Nona, which is Latin for “ninth,” is a genetic clone of Octavia, which bloomed at the Garden in 2017. At peak bloom on October 5, Nona was nearly 67 inches tall. More than 750 people came to the Garden after hours to experience the sight and smell of this rare flower.





## Collection Trip Nets Threatened Fruit Seeds

Garden horticulturists have returned from Kyrgyzstan with quite a haul. This fall they collected seed from a number of threatened wild crop relatives, including apple, apricot, and plum. These important species are under threat from habitat loss and overharvesting. The seeds collected on this trip will be split between the new seed bank at Gareev Botanical Garden in Kyrgyzstan and the Missouri Botanical Garden seed bank. Horticulturists here will also attempt to propagate some of the seeds with a goal of eventually adding these plants to our living collection. Staff will return in March to focus on collecting grafting material.



## Recent Awards and Recognitions for Garden Staff

Researchers Sebastián Tello and Adam Smith both recently received grants from the National Science Foundation. Tello's grant will allow him to study how biodiversity was shaped by the uplift of the tropical Andes of South America. This region is among Earth's most species-rich biodiversity hotspots, containing about 15 percent of all plant species in only 1 percent of the planet's land surface. Smith's grant will develop modern statistical methods that integrate data from herbaria, fossils, and genetics to understand where trees lived during the last Ice Age, and how they expanded their ranges as glaciers melted.

## Secondary Forest Study

Research in Costa Rica headed by Garden scientist Leighton Reid found that secondary forests, or forests that have regrown after agriculture use, only last an average of 20 years.

That presents a problem because the benefits of restoration depend on those forests persisting for more than 20 years. Reid said he hopes this study will lead to stronger restoration commitments.

"Currently, countries are making large-scale commitments with no long-term vision. There is a great opportunity for an ambitious, progressive country to commit to restore a million hectares of 100-year-old forest by 2120, instead of a million hectares of zero-year-old forest by 2020," he explained.



## Collaboration Aims to Save Endangered Tree

The Garden's Horticulture and Research divisions are working together to save a critically endangered African tree. There are only 18 known mature trees of *Karomia gigas* growing in the wild in Tanzania. The remaining population is threatened by nearby charcoal production and logging operations. Roy Gereau, Tanzania Program Director in the Garden's Africa and Madagascar Department, recently assisted in sending more than 6,000 *K. gigas* seeds to St. Louis. The horticulture staff here will attempt to germinate

the seed in a controlled environment and hopefully save this species from the threat of extinction. Other partners in this collaborative effort include the Tanzania Forest Services Agency, Tanzania Tree Seed Agency, and Botanic Gardens Conservation International. Read *Back from the Brink* to learn more about *K. gigas* at [discoverandshare.org](http://discoverandshare.org).





## Genome vs. Genetics

**Genome:** All the DNA information contained in the cells of an organism; essentially their entire DNA make-up. Some of it is functional, some is not, but it's all needed somehow.

**Genetics:** The study of genes, genetic variation, and how they are inherited. People commonly erroneously use “genetics” to refer to the traits, properties, and features that an individual has inherited.



Dr. Carlsen's team of interns practicing their fieldwork in the Climatron.

## Garden Supports Global Genome Initiative

The Global Genome Initiative (GGI) is a Smithsonian-led international collaboration to collect, cryo-preserve, study, and share genome-quality research specimens representing all major branches of the Tree of Life on Earth.

To reach this goal, GGI founded GGI-Gardens, which partners with botanical gardens around the world, including the Missouri Botanical Garden, to collect specimens.

The Garden's role is to collect and preserve genetic material from plants growing at the Garden. Dr. Monica Carlsen leads a program offering internships for local undergraduate students interested in plant morphology and identification, fieldwork techniques, herbarium specimen preparation, collection of genome-quality plant tissues, and storage of DNA samples, as well as analysis of DNA sequences.

These internships are also part of the Garden's commitment to train tomorrow's scientists and to open students' minds to the possibilities of science careers. To learn more about the Garden's scientific work and the researchers behind it, visit [discoverandshare.org](http://discoverandshare.org).



## Training A New Generation

Dr. Monica Carlsen  
Assistant Scientist

It's hard to summarize Dr. Monica Carlsen's job at the Garden because, really, it's more like two jobs.

First, her own research focuses on tropical plant diversity, with emphasis on the aroid family. She integrates the latest DNA techniques along with the information held in century-old herbarium collections in order to understand plant evolutionary relationships.

The work has already taken her to 10 Latin American countries for collecting trips. Since the Garden is home to one of the largest tropical plant collections in the world, she also takes weekly collecting “trips” to the Climatron, a short walk from her office. Dr. Carlsen jokes, “I'm going on a field trip; I'm crossing the street.”

Her second role is with students. She is in charge of research and science education programs for undergraduate students at the Garden. She coordinates the Research Experiences for Undergraduates (REU) summer program and has brought internships with the Living Earth Collaborative Research Internship Program and another with the Smithsonian Institution Global Genome Initiative. The work with students is something she feels particularly passionate about. “I believe we need to train the new generation of biologists to preserve what we have,” she says.

## Get Involved!

Support Dr. Carlsen; learn more at [mobot.org/donate18](http://mobot.org/donate18).

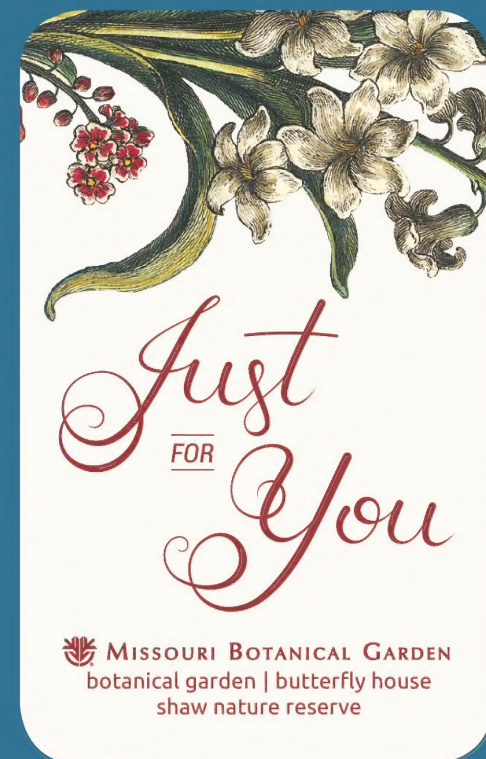


# what can you do?



## Consider Making a Year-End Gift

The Garden is a world-renowned institution because of donors like you. Consider making a year-end gift over and above your membership to support the Garden's work here and around the globe. We can't do this without you! Visit [mobot.org/donate](http://mobot.org/donate), call (314) 577-5118, or stop by the Membership Services Desk to make a tax-deductible donation.



## Give Them a Garden Gift Card

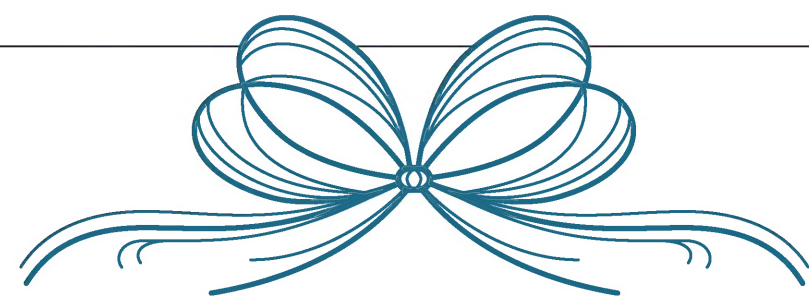
Gift cards are always great birthday, holiday, and anniversary presents. Get the Missouri Botanical Garden gift card at the Garden and Butterfly House ticket counters and online\* at [mobot.org](http://mobot.org). Use it to buy admission tickets, sign up for classes, enjoy a meal at Sassafras, buy a membership, or get that unique present at the gift shops.

*\*shipping fee applies.*



## Avoid Cabin Fever with Our Classes

It's cold outside, so come inside and take advantage of all the great classes for kids and adults offered at the Garden, Butterfly House, and Shaw Nature Reserve. From garden planning to winter drawing to making maple syrup—there's something for everyone! More information at [mobot.org/classes](http://mobot.org/classes). Don't forget to mark your calendars: spring and summer class registration opens February 1.



## Give the Gift of the Garden This Holiday Season

Share the Garden with someone special. A Garden membership makes an excellent gift and provides a full year of great benefits. To give a gift membership, visit the Membership Services Desk at the Garden, Butterfly House, or Shaw Nature Reserve; call (314) 577-5118; or visit us online at [mobot.org/membership](http://mobot.org/membership). Christmas delivery is guaranteed through December 10.





## Resolve to Spend More Time in Nature

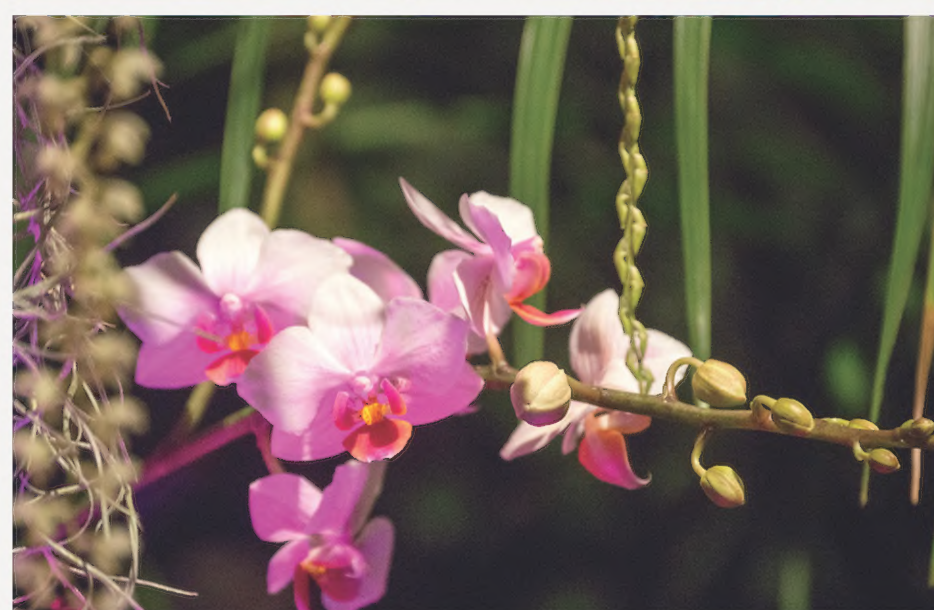
With 17 miles of trails to explore, Shaw Nature Reserve is the perfect place to spend more time enjoying nature in 2019. Whether your New Year's resolution is to walk more, run farther, or develop mindful habits (see page 10), you will find year-round opportunities at the Nature Reserve. The gates are open from 8 a.m. until 5 p.m. this winter. The Visitor Center and Bascom House are closed on most major holidays. Plan your visit at [shawnature.org](http://shawnature.org).



## Celebrate With Butterflies During Morpho Mardi Gras

Escape the cold by visiting Morpho Mardi Gras: Bugs, Butterflies, and Beads! Bring your Krewe to the Mardi Gras-inspired carnival during the months of February and March. Join the party at our Bug on Parade, make a masquerade mask, and immerse yourself in a sea of blue as the Butterfly House floods the tropical Conservatory with thousands of blue morpho butterflies. Free for members; included with admission for nonmembers. More information at [butterflyhouse.org](http://butterflyhouse.org).

photos by Matilda Adams and Marissa Billmeyer



## Orchid Nights

February 14, 21, 28; March 7 | 6–8 p.m.  
Ridgway Visitor Center

Enjoy exclusive lighted viewings of the Orchid Show, live music, wine tastings, and a cash bar. Ticket includes choice of one signature cocktail or one beer/wine. \$15 members; \$20 nonmembers | [mobot.org/orchidshow](http://mobot.org/orchidshow).





Mindfulness can mean being more aware of your physical, emotional, and mental states...or accepting the ups and downs that life throws at you.





# *mindfulness* in nature

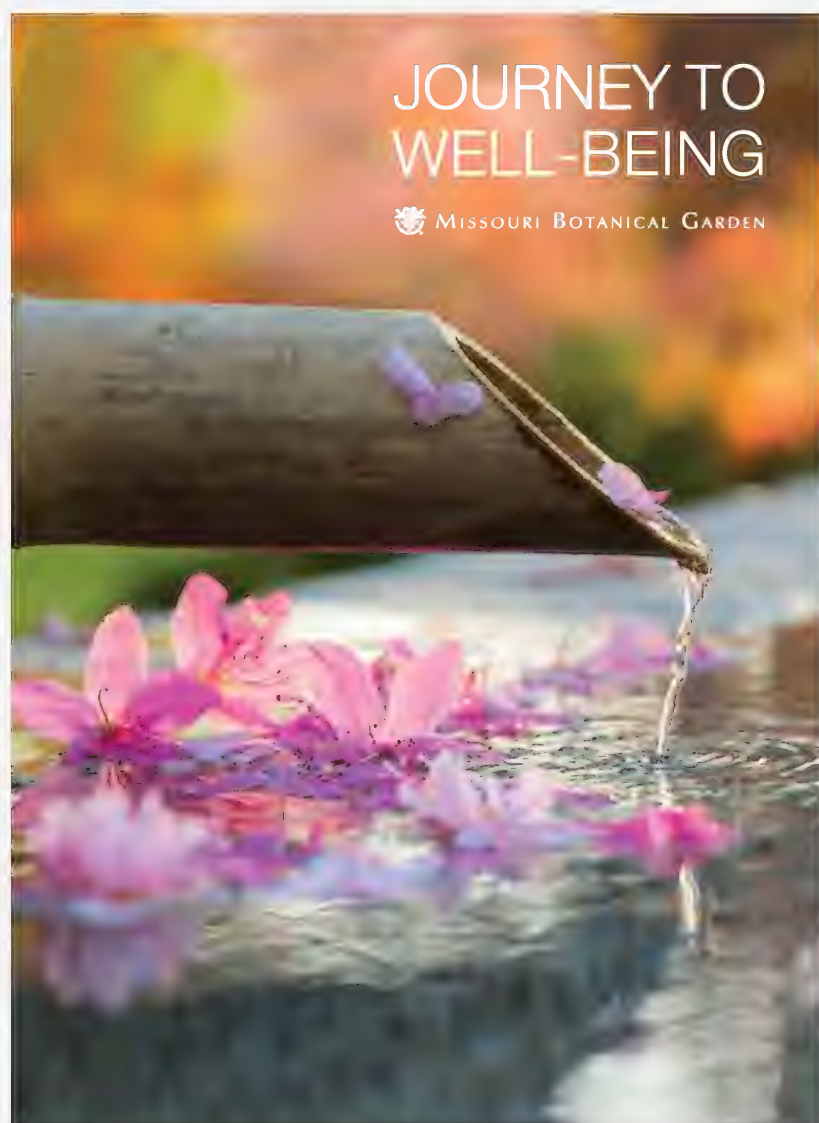
It's hard to escape the hectic pace of our daily lives, especially this time of year. Endless to-do lists, projects to complete, and gatherings to attend are the rule of the day. Mindfulness can be defined in many different ways. It can mean being more aware of your physical, emotional, and mental states; slowing down to pay attention to the world around you; or accepting the ups and downs that life throws at you. However you define mindfulness, remember that there is no right or wrong path to achieve it. What is important is to take the first step and try different tools to develop that awareness.

Nature offers you a chance to hit the “pause” button. Listen to the wind rustling the few leaves left on the trees. Feel the cool breeze against your skin. Cozy up to the

warmth of a fire. Smell the perfume of some of winter's delicate blooms. Take a moment to reflect on what brings you peace and comfort, and let nature guide you on your path to mindfulness.

The practice of mindfulness begins with developing your senses. As you take in all the different elements in nature, you begin to see, hear, feel things differently. Honing sensory skills leads to being more aware of how you feel and making choices to improve your overall well-being. The following are excerpts from the Garden's all-new Journey to Well-Being program (see page 12), developed by the Therapeutic Horticulture team. Taking a moment to explore each one can be a great first step in your path to find mindfulness.





## Journey to Well-Being

3-Class Series (multi-date program)

November 15, 2018–January 24, 2019

For more information, registration, and future dates, visit [mobot.org/journey](http://mobot.org/journey).

This fall, the Garden's Therapeutic Horticulture team launched its new Journey to Well-Being program. Almost two years in the making, the 10-week program is designed to improve well-being by spending time in nature. It includes a guided tour of the Japanese Garden, three facilitated meetings, and a guidebook with self-guided walks centered around the natural elements within the Japanese Garden. "Our intent was to provide the people we serve, who are going through physical, emotional, or mental challenges, a way to find what they need in a setting that is a natural place to find peace," says Jeanne Carbone, Therapeutic Horticulture Instructor.

The program aims to appeal to anyone looking to develop their own mindful practices, discovering something about themselves. "Metaphorically, the program is a parallel of the journey you take in this physical space with the practice of applying mindfulness in real life," says Rachel Deffenbaugh, Therapeutic Horticulture Supervisor. "We want participants to use those skills to explore and nurture their attention, to revisit it, to grow it."

## WIND

Find a spot in nature and listen only for the movement of the wind moving through the trees. The sounds of nature might engulf you—birds chirping, the rustling of leaves under your feet. Comfort can be found in being immersed in a sensory experience. How difficult is it to ignore the noises of everyday life and concentrate on one thing? Can you allow the simple sounds of nature to soothe your soul?

## STONE

Stones are considered to be the oldest element on Earth. Each stone has a story of its journey to where it is today. An individual stone may appear complete in its current state, but it has changed, eroded, or dissolved from something larger before it came to rest. Ponder the story each stone you see has to tell, now that you've taken the time to listen.

## WATER

Seek a quiet spot near a fountain or creek. Enjoy the solitude and take a moment to rest, listening quietly to the tranquil sounds of water. Trust that the best action is sometimes rest. Your quiet stillness will later provide power and determination.

## FIRE

Fire can elicit feelings of warmth and comfort and also vibrancy and excitement. The color red can stimulate the mind, and the orange glow of an ember can inspire us to sit still and watch. The colors of fire are also among the bolder ones in nature and stand in contrast to their natural backdrop, inviting us to pay attention.

## WOOD

Wood exists and provides. It is always present in nature and in our daily life. Before a tree can grow tall, it must have established roots. Both wood and roots are strong, solid, and supportive. Roots enable trees to stand up by themselves. Be mindful of the trees and wood around you.

## SKY

Whether standing or sitting, allow your gaze to remain in line with the horizon. Horizon is defined as the point at which the Earth's surface and the sky appear to meet. It can be a clear line of vision or impeded by the landscape. Horizon is often associated with the future. What is on the horizon for you?

## Learn More!

Read more about the program and Therapeutic Horticulture at [mobot.org/thprograms](http://mobot.org/thprograms).





*what does mindfulness mean to you?*





# Docents Celebrate 50 Years!

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"This will be volunteer work of the finest sort, as these guides will have the opportunity of gaining as much as they are giving."

—Missouri Botanical Garden *Bulletin*, 1968



Most Garden members have had at least one experience with a Docent. They lead new member tours throughout the year, in addition to daily public tours. Docents also volunteer at floral shows and special exhibits. You may find them roving the grounds, searching for visitors who look like they have a question that needs answering. Considered by many to be the face of the Garden, Docents play a vital role in our mission to discover and share knowledge of plants and their environment. This year the program celebrates a half century of educating the public.

## Where it All Began



Garden Guides, 1970s.

The Docent program traces its roots back to September 1968 and the creation of the Garden Guides. From its inception, the program strived to train dedicated volunteers to share their passion for and knowledge of the Garden with visitors. In the 50 years since that first tour, Docents have helped hundreds of thousands of visitors from all over the world discover the Garden and its work to protect and conserve plants.

Much like the Garden it showcases, the Docent program has changed quite a bit in 50 years. It began as an all-female group focused mostly on tours for school children. Today, the roster includes a growing number of men, and expanded roles allow Docents to interact with more visitors. “I think we’ve grown along with the Garden, along with society,” says Docent Betty Salih. “You can’t remain stagnant; you have to adapt yourself.” Salih has seen much of this change firsthand. She’s been part of the Docent program for 19 years.

## The Training

Docents aren’t just typical tour guides pointing out pretty plants, although they can certainly do that. These volunteers go through extensive training to develop an in-depth knowledge of all facets of the Garden. They study Garden history and the story of founder Henry Shaw,

collections in the Garden, horticultural display beds and conservatories, special exhibits, sustainability, and the Garden’s work in plant science and conservation. This ongoing education is part of the allure for many of the Docents, who were often members or frequent visitors before joining the program.

If you’ve ever taken a Docent tour, take another. No two tours are ever the same. There’s no script, and the Docents are trained to make each interaction a personal experience.

“Every visitor comes here for their own interests. Docents get to know the visitors they engage with and taps into those interests. Their aim is to connect them with the Garden in a way that’s personally unique to each visitor.”

—Jennifer Wolff, Manager of Interpretation.

## Where We Are Today

Now integrated into the Garden’s Interpretation Department, the Docent program is actively pursuing additional opportunities to engage visitors. Docents can now be found volunteering in the reopened Stephen and Peter Sachs Museum or showing off the recently renovated bedrooms in Tower Grove House. A new fast-track training option has allowed the program to expand its ranks, meaning more people in more places to help answer your questions.

For 50 years Docents have been building deeper connections between the Garden and its visitors. Just as it was envisioned with the creation of the Garden Guides in 1968, today this group of dedicated volunteers continues to gain as much as they give. It’s a mutually rewarding relationship that will only grow strong in the next 50 years and beyond.



Three new Docents in training joined in the 50-year celebration this September.

## Learn More!

Watch a short video commemorating the docent’s 50-year milestone at [mobot.org/volunteer](http://mobot.org/volunteer).





Don't let the cold keep you from experiencing the most wonderful time of the year at the Garden. Winter events and activities offer fun for guests of all ages—and most are FREE for members.

### Garden Glow

November 17–January 1 | Doors open at 5 p.m.; last entry at 9:15 p.m. | Member Preview, November 16

**Presented by Wells Fargo Advisors**

Celebrate the season with one million lights, fun new experiences, and traditional favorites. Enjoy s'mores, festive drinks, and great photo opportunities that will delight guests of all ages! Tickets and information at [mobot.org/glow](http://mobot.org/glow).

### Gardenland Express

November 17–January 1 | 9 a.m.–4 p.m. and Garden Glow

**Presented by Wells Fargo Advisors**

The annual holiday flower and train show returns celebrating the history of floral shows at the Garden. Members enjoy free daytime admission to Gardenland Express, and nighttime admission is included in the member Garden Glow ticket price.

### Victorian Christmas at Tower Grove House

November 17–December 30 | 10 a.m.–4 p.m. | Wednesday–Sunday | Closed Thanksgiving and Christmas Day | Open during Garden Glow

See the country home of Garden founder Henry Shaw decked for the holidays in true Victorian style. Decorations are provided by local garden clubs and the Garden Members' Board. Enjoy special activities for children and storytelling on Wednesdays and Saturdays at 11 a.m. and Sundays at 1 p.m.





## Holiday Wreath Display and Auction

**November 16–January 1 | 9 a.m.–4 p.m.**

Monsanto Hall is decked with lavish creations donated by St. Louis's finest florists. Each unique wreath is available for purchase through silent auction. The annual display is coordinated by the Garden Members' Board. Wreaths are awarded to the highest bidder on January 2, and all proceeds support the Garden's Horticulture division. More information at [mobot.org/wreathauction](http://mobot.org/wreathauction).

## Stephen and Peter Sachs Museum—**NEW!**

**Open daily (closed Christmas Day) | 9:30 a.m.–5 p.m.**

You've seen it decked with holiday lights during Garden Glow, but now you can visit the newly renovated Sachs Museum, open to the public every day during regular daytime hours (check website for special holiday hours). Escape the cold as you gaze up at the historic ceiling mural and explore select items from the Garden's many collections. Be sure to follow the Museum on Twitter: @MobotMuseum.

photos by Karen Fletcher, Ning He, and Wesley Schaefer

## Garden Glow Member FAQ

### What are the dates of Garden Glow?

November 17–January 1 with a special preview for members on November 16.

### Is Garden Glow closed any nights?

December 24 and 25.  
(Christmas Eve and Christmas Day)

### What are the hours?

Doors open at 5 p.m.; last entry at 9:15 p.m.

### Are tickets timed?

Tickets are both dated and timed. Times begin at 5 p.m. each night. Last entry is at 9:15 p.m.

### How much are member tickets?

\$12–\$14 member adults, depending on the night. \$3–\$6 member children, ages 3–12, depending on the night.

### How do I purchase member tickets?

Visit the ticket counter or [mobot.org/glow](http://mobot.org/glow).

### How many member tickets can I purchase?

The number of adult tickets is based on your membership level. Garden and Garden Senior levels can purchase up to 2 adult tickets per night at the member price.

Members may purchase as many member child tickets as needed by the member household.

### How do Festival-level members get their free tickets?

Visit [mobot.org/festivalmembers](http://mobot.org/festivalmembers) or call (314) 577-5118 to request free tickets. Donors at the Contributor level or higher may call (314) 577-5173 or email [donors@mobot.org](mailto:donors@mobot.org).

### What's the best night to attend Garden Glow?

Mondays and Tuesdays are the quietest nights with the lightest crowds.

Wednesday Family Nights offer \$3 tickets for all children, member or nonmember. See schedule at [mobot.org/glow](http://mobot.org/glow).

### Is food available?

Dining in Sassafras café (last entry 8 p.m.) and in Café Flora (open Fri/Sat only in November, nightly in December) until 9 p.m.

### Is the shop open?

The Garden Gate Shop is open 5–10 p.m. each Garden Glow night.

### More at [mobot.org/glow](http://mobot.org/glow)



# just for members



## Membership Benefits

From discounts to event previews to exclusive access—your membership gives you more of what you love about the Garden, Butterfly House, and Shaw Nature Reserve.

## Garden Glow Member Preview

November 16 | 5–10 p.m.

*Presented by Wells Fargo Advisors*

Celebrate the season on a members-only night! One million lights illuminate new displays and annual favorites. Advance tickets recommended.

\$14 members | \$6 member children. FREE for Festival-level members and above.

## Breakfast with Santa

December 1 | 8–11:30 a.m.

Ridgway Visitor Center

*Presented by Macy's Gives*

Visit with Santa as he makes his yearly stop at the Garden for our members-only breakfast. Enjoy live music, crafts, and photos with Rudolph, Frosty, and Mrs. Claus.

\$20 members | \$15 member children.

Registration required.

## Member Speaker Series: The Role of Living Collections

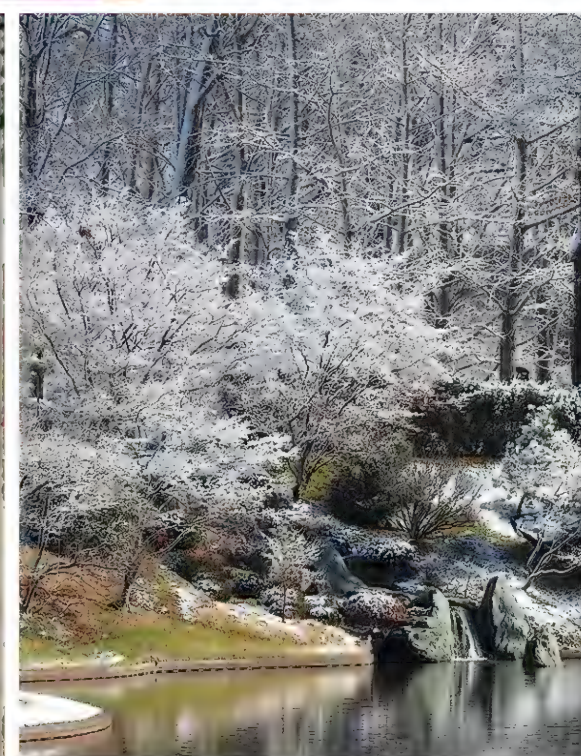
January 15 | 11 a.m.–noon

Andrew Wyatt, Senior Vice President of Horticulture and Living Collections, will discuss how botanical gardens address pressing challenges for the world's plant diversity, focusing on horticulture at the Garden. FREE for members. Registration required.





Information and registration at (314) 577-5118 or [mobot.org/memberevents](http://mobot.org/memberevents) unless otherwise noted.



## Orchid Show Member Preview

February 1 | 7–9 p.m.

Members see it first! Enjoy a members-only evening viewing of the 2019 Orchid Show, featuring beautiful orchids from the Garden's historic collection. Cash bar available; Garden Gate Shop open. FREE for members.

## Member Speaker Series: Orchid Show Inspiration to Installation

February 2 | 11 a.m.–noon

Garden orchid experts Babs Wagner and Pat Scace present an in-depth overview of the creation of the 2019 Orchid Show. Learn how the show is created from the ground up each year. FREE for members. Registration required.

## Member Speaker Series: Five Seasons

February 26 | 11 a.m.

February 27 | 7 p.m.

Documentary film screening of *Five Seasons: The Gardens of Piet Oudolf* for members only. Discover revolutionary landscape designer Oudolf's most famous works and a creative process that redefines gardens as works of art (2018; 75 min). FREE for members. Registration required.

## Travel the Globe with the Garden

Members can take small-group trips led by expert Garden staff. Enjoy exclusive garden tours, expeditions to horticultural research centers, and a chance to see nature's wonders. A few spaces remain for Costa Rica (January 15–26, 2019) and the Cotswolds, England (June 6–14, 2019). Learn more at [mobot.org/travel](http://mobot.org/travel).



# special events



## Holiday Wreath Display and Auction

November 16–January 1  
Monsanto Hall

View unique creations donated by some of the area's finest floral designers. Wreaths are sold by silent-auction bidding with proceeds benefiting the Garden's Horticulture Department. Bid in person or online at [mobot.org/wreathauction](http://mobot.org/wreathauction).



## GARDEN GLOW

Presented by



**November 16–January 1**

Celebrate the season with one million lights, fun new experiences, and traditional favorites. Enjoy s'mores, festive drinks, and great photo opportunities that will delight guests of all ages!

[mobot.org/glow](http://mobot.org/glow)

## Victorian Christmas at Tower Grove House

November 17–December 30

See the country home of Garden founder Henry Shaw decked for the holidays in true Victorian style (closed Thanksgiving Day and Christmas Day). Decorations are provided by local garden clubs, the Garden Members' Board, and staff and volunteers at the house. Enjoy special activities for children and storytelling on Wednesdays and Saturdays at 11 a.m. and Sundays at 1 p.m.

## Chanukah: Festival of Lights

December 2 | noon–4 p.m. |  
Ridgway Visitor Center

A traditional Jewish holiday celebration that includes festive Israeli music and dance, a menorah-lighting ceremony, and Chanukah merchandise provided by local vendors. Included with Garden admission.



## Kwanzaa: Festival of the First Fruits

December 26 | noon–4 p.m.  
Ridgway Visitor Center

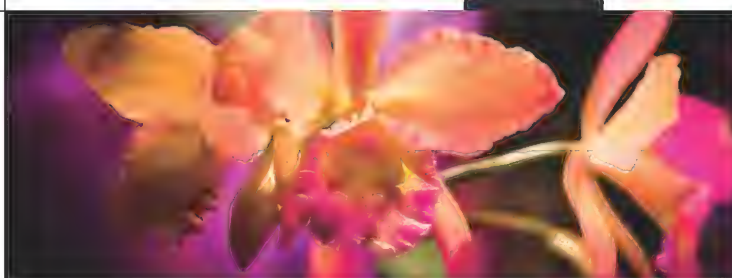
This contemporary African-American holiday centers around the feast table of the harvest. Join us for a day of storytelling, craft and jewelry displays, and musical performances. Included with Garden admission.



## Orchid Nights

February 14, 21, 28; March 7 |  
6–8 p.m. | Ridgway Visitor Center

Exclusive lighted viewings of the Orchid Show, live music, wine tastings, and a cash bar. Ticket includes choice of one signature cocktail or one beer/wine. \$15 members; \$20 nonmembers. [mobot.org/orchidshow](http://mobot.org/orchidshow).



## Trivia Night—*Garden Style*

February 16 | Doors open 6 p.m.  
Trivia begins 7 p.m.  
Ridgway Visitor Center

Grab your team and join the Young Friends of the Garden for 10 rounds of trivia. Enjoy admission to the Orchid Show, a wine pull, silent auction, 50/50 raffle, and attendance prizes. Beer, soda, and water included. Outside food welcome. Proceeds support the Garden's Sustainability division. \$350/table of 10. Attendees must be at least 21. Advance tickets required.

[mobot.org/trivia](http://mobot.org/trivia)



From gardening tools and unique toys to vintage items and local products, the Garden shops have just what you're looking for.

Look for these icons to know where each event or sale is taking place.



## Garden Gate Shop

4344 Shaw Blvd.  
St. Louis, MO 63110  
Monday–Sunday  
9 a.m. to 5:30 p.m.  
(314) 577-5137



## Butterfly House Gift Shop

15193 Olive Blvd.  
Chesterfield, MO 63017  
Tuesday–Sunday  
10 a.m. to 4 p.m.  
(314) 577-9477



## Little Shop Around the Corner

4474 Castleman Ave.  
St. Louis, MO 63110  
Tuesday–Saturday  
10 a.m. to 4 p.m.  
Sunday, noon to 4 p.m.  
(314) 577-0891

## Seasonal Closings

The Butterfly House, including its gift shop, and Little Shop Around the Corner will close temporarily in January for annual inventory and maintenance work. Please mark your calendars and don't forget to stop by in February for more events and great sales.

JUST FYI

## First Fridays Are Member Double Days

First Friday of each month | 🌿 🦋

All Garden members receive 20% off purchases or double card punches on the first Friday of each month.

## Dine + Glow

November 17–January 1 | 5–8 p.m.

Enjoy your favorite Sassafras items during your Garden Glow visit. Our Dine + Glow package offers an entrée and a drink for \$13 for adults and a kids menu item, dessert, and a drink for \$8 for children.

## Around the World Wine Dinner

November 29 | 6:30 p.m. | Spink Pavilion

Don't miss the last dinner of the year! Enjoy the Spirits of the Season cocktail party before heading out to Garden Glow. \$70 (plus 18% service charge and tax). Advance reservations required: (314) 577-0200 or [ckramer@cateringstlouis.com](mailto:ckramer@cateringstlouis.com).

## Plan Your Holiday Event

Plan a unique corporate party during Garden Glow (November 17–January 1). What better way to start the holidays and thank your employees or your customers? Visit [cateringstlouis.com](http://cateringstlouis.com) or call Katie at (314) 961-7588, ext. 221 to reserve your date today!

## Gift Certificates

Looking for a unique gift for friends or family? Consider gift certificate to Around the World Wine Dinners or brunch at Café Flora. Café Flora gift certificates can be used during Garden Glow or in the spring and summer months for brunch on Sundays. For more information, email [ckramer@cateringstlouis.com](mailto:ckramer@cateringstlouis.com).



## Fleur de Lisa Jewelry Trunk Show

December 7–9 | 10 a.m.–4 p.m. | 🌿  
Shop unique pieces made by local jewelry designer Lisa Lohman.

## Little Shop Around the Corner Year-End Clearance Sale

December 26–30 | 10 a.m.–4 p.m. | 🦋  
Start the year off right with 50% off unique vintage items for your home. No additional discounts apply. See shop for details. Open Tuesdays–Saturdays from 10 a.m. to 4 p.m. and Sundays from noon to 4 p.m.

## » staff picks



## Frasier Fir Products

Bring the warm, comforting scent of crisp Siberian fir needles, heartening cedar wood, and relaxing sandalwood into any small space. Enjoy the fresh, just-cut fragrance of the tree itself with a special holiday touch. Prices for the whole collection range from \$6.99 to \$119.99. Available in the Garden Gate Shop.



# commemorative gifts

*July–September 2018.*

A commemorative gift is a wonderful way to honor family and friends. Beginning July 1, 2018, gifts of \$100 or more are listed in the *Bulletin*. For more information about giving opportunities, call (314) 577-5118 or make a commemorative gift at [mobot.org/tributes](http://mobot.org/tributes).

## In Honor of

**Mr. Bill Bartsch**

Dr. Yemi S. Akande-Bartsch

**Ms. Corinne Condie**

Mr. and Mrs. David M. Hollo

**Ms. Nina Durham**

Mrs. Ellen Jones

**Jessica and Michael  
Friedlander**

Mr. Walt Schalick

**Carol Higgins**

Van and Ruth Stoecker

**Mrs. Ernesta Lonsway**

Dr. Maurice J. Lonsway

**Sophia and Craig Jones/  
McIntosh**

Mrs. Christine L.  
Mackey-Ross

**Rieko Mitsui**

Mrs. Eleanore Tyson and  
Keith Tyson

**Gene M. Peimann**

Ann L. Case

**Mary Ann Sutton**

Mr. Roger Miyasaka

## In Memory of

**Mrs. Mary Elizabeth Aull**

Larry and Le Akers

**Nancy Lee Barsanti**

Mr. and Mrs. Van-Lear  
Black III  
G. A., Jr. and Kathryn  
M. Buder Charitable  
Foundation  
Tracey and Jim Gans  
Claire and Clay Hardon  
Mr. James A. Krekeler  
Peter Cooper, Celia Rodee  
and Family  
Mrs. Marian Senger  
Jenna Villani, Stacy  
Albanese, Kara Baldwin  
Brennan, and Jeanne  
Marano

**Ms. Anne M. Bond**

Ann L. Case

Mrs. Joyce Schoenberg and  
Curves Friends

**William M. Breed**

Mer, Mark, Mike, and Peggy  
Newport

**Nancy W. Burton**

Coleman H. Burton

**William H. T. Bush and  
Patricia L. Bush**

Martinna and Charlie Dill

**David J. Busse**

Julie Reckamp

**Tracey Collier Cabell**

Randall Kindred

**Monica A. Clapper**

Janelda Harders-Brumitt

**Florence LeVale Cole**

The Koebbe and Blaine  
Families

**Troy W. Cole**

Mrs. Betty J. Cole

**Betta A. Cox**

Karen and Terry Proffitt

**Karie Anne DeCraene**

The Hinkebein Family

**David Andrew Deem**

Douglas and Christine Deem

**Irene Catherine Forness**

Eileen M. Vanek

**Mary Catherine Fort**

Mr. and Mrs. David M. Hollo

**Alan Garrison**

Nancy Stahlschmidt

**Robyn Brainerd Gross**

Stephanie and Joel Ream

**Crystal L. Haynes**

Ms. Stephanie Haynes  
Missouri Hospital Association  
Rev. Marc D. Smith

**Martin J. Hennessey**

Cynthia and Thomas  
Woolsey

**Holly A. Hutchings**

Steven A. Tucker

**Jubilee Viola Metzger  
Jakubowski**

Mr. Clayton Brown

**Helen S. Jenks**

Tina and Paul Schmid

**Frank E. Johnson, Jr.**

John W. Barton  
Stephen and Edie Feman  
Dr. Jung and Shuan Huang  
Dr. Katherine Virgo

**Doris Elizabeth Johnston**

St. Louis Master Gardeners

**John Robertson Jones**

Ann L. Case

**Dr. Jane Sherman Kahn**

Mr. and Mrs. Albert E. Cawns  
City of Ladue  
Donna Moog and Leonard  
Landsbaum  
Tom Moog  
Julie and Steven Plax

**Meta Meyer Kurrus**

Pete and Alice Eshelman  
Family  
J. Scott and Victoria Howard  
Family  
Cynthia and Jon Rill

**Brian Louis LeDoux**

Robert Smith and the Smith  
Family

The Friends of Ikebana  
Sarah and Rand Waddoups

**Mary Anne Lucas**

Ryan Blum  
Kelley Burke  
Kelley and Jon Burke  
Bryan and Christy Lucas  
Christy Lucas

**Mihai “Mike” Marcu**

Anne T. Weidmann

**Malcom B. Mathis II and III**

Ms. Jennifer Rashet

**Hugh and Lois McCall**

Marvin and Karen Lohmann

**Margaret E. Melcher**

The Moorhead Families

**Elsie C. Metzler**

Ron and Judy Rauh

**Catherine Michniok**

St. Louis Master Gardeners

**Lois Miyasaka**

Mr. Roger Miyasaka

**Kevin Morrison**

Mrs. Emily A. LaBarge

**Robert Nellums**

Bob and Phyllis Rose

**Frances Marie Niemeyer-  
Murphy**

St. Louis Master Gardeners

**Arthur F. Niemoeller**

Jim and Glenda Fiala

**David A. O'Halloran**

Bridget Carty Mracek

**Pierre Olivier**

Mr. and Mrs. Thomas J. Cohn

**Laura Lee Oppland**

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Analytical Pathology Services  
Jan Oppland Beger and  
Family

The Beger Family  
Devault Operations  
Ken and Mindy Jeffries  
Ms. Linda Oppland  
Jane Rallo

**Lois W. Pitchford**

Hallye B. Bone

**Robert H. “Bob” Purdy**

Marti Reichman

**Sylvia Marie Rajnoha**

PayneCrest Electric, Inc.  
The Swyers Family

**Ernest Rohay**

Anonymous

**Sally Schiller**

Emilee Cline

**Flora Lee Schmelzle**

Steve and Pat Bander  
Ms. Alice M. Bowen  
Mr. and Mrs. William J.  
Fienup  
Mrs. Pamela Gomes  
Bill and Lois Leith  
Mr. and Mrs. Michael Murphy  
Vern and Carol Stubblefield,  
Amy Wied, Tom and  
Marisa Weid  
Mike and Kim Sullivan

**Mrs. Doris C. Schulte**

Mr. Kevin Vorhees  
Mark, Carla, Steph and  
Lindsey Vorhees  
Jean Wetzel

**Mrs. Estalee Smith**

Ms. Carol A. Gruen

**Gilbert A. “Gib” Stark**

The Neighbors of Susy Stark

**Virgil A. Wiesner**

Richard Wiesner

**Victoria Bradford Witte**

John E. Evans, III and Phyllis  
L. Evans

**Wanda J. Woods**

Mr. and Mrs. William Graham  
Susan and Michael McMahon  
Matt, Lucy, and Elijah Woods

**Joseph J. Zeitz**

St. Louis Greenhouse Plant  
Society  
St. Louis Master Gardeners

## MEMBERS ENTRY COURT

July–September 2018.

For more information,  
call (314) 577-5118 or visit  
[mobot.org/donate](http://mobot.org/donate).

## Engraved Clay Bricks

**Ms. Margaret A. Aston**

St. Louis Children's Hospital  
Neonatal Intensive Care  
Unit Nurses

**Jackie Behrendt**

Walter Behrendt

**Dorothy Bryant**

Tina M. Heuer

**Linda G. Cherry**

Missouri Botanical Garden

**Bill and Bonnie Coyne**

Bill and Bonnie Coyne

**May Irene Lowe Davis**

Susan Johns

**Ms. Joan Dellbringge**

Ronald and Sue Dellbringge,  
Amy Barker, and Adam  
Conway

**Cole Duffell**

ABC Chefs Family

**Ryan M. Furniss**

Missouri Botanical Garden  
Young Friends

**John and Adele Gausch**

Mr. John H. Gausch, Jr.

**Mary Carol Gillham**

Rev. John M. Gillham

**Rev. John M. Gillham**

Rev. John M. Gillham

**Crystal L. Haynes**

The Noedel and Baumer  
Families

**H.E.S. Family Ricci and Tori**

Ms. Karen Sue Schooler

**Gerald C. Hurt**

Marlene Hurt

**Norman and Mary Helen  
Kimmich**

Dan Weis

**Ann F. Meyer**

Mr. Kenneth A. Goldberg

**Mahmoud Moshiri**

Partners and Colleagues of  
Ebrahim Moshiri, Ph.D

**Mr. and Mrs. Steven R.  
Ohmer**

Steve and Bobbie Ohmer  
Family

**Sylvia Marie Rajnoha**

PayneCrest Electric, Inc.

**Stewart Schneider and**

**Jenny Godfroy Schneider**

Stewart Schneider and Jenny  
Godfroy Schneider

**Richard E. Skurat**

Ms. Jaci Haskenhoff

**Ginnie and Gene Skurat**

Ms. Jaci Haskenhoff

**Art and Sandra Thompson**

James and Jeanne Boden  
Joseph and Diane Elstner  
Keith and Anne Vemmer

**Stephen E. Wolff**

Missouri Botanical Garden

## BUTTERFLY HOUSE

July–September 2018.

Call (314) 577-5118 or visit  
[butterflyhouse.org/donate](http://butterflyhouse.org/donate)  
to learn more.

## Pavers

**Matthew R. Dubensky**

Adrianna Trippeer

**Mary Alice Erwin**

Mr. and Mrs. Francis X.  
Buckley, Jr.

**Benjamin Imboden**

Joshua Imboden

**Camryn “Cami” Lester**

Ushiki Helenkamp and  
Dandre Duke

**Betty Neal**

Cindy Kedl

**Amber Nichole Scott**

Debbie and Rodney Scott





Ron and Fran in the Twinkling Tunnel at Garden Glow.

## Ron and Fran Schlappizzi

### Giving of Their Time, Talent, and Treasure

If you've been to a major Garden event, you've likely seen Ron or Fran Schlappizzi. In addition to visiting as members for more than 30 years, Ron and Fran frequently volunteer for the Garden.

"Fran started coming to the Garden with her mom as a little kid," Ron says. "And we came quite a bit when we were first married. We always enjoyed the holiday events and floral show premieres. Fran's friend volunteered at the Membership Services Desk; she thought we might like that too."

That friendly suggestion started more than 20 years of volunteer engagement. Ron and Fran also support the triennial Garden Tours and many member events. Ron is on his "second

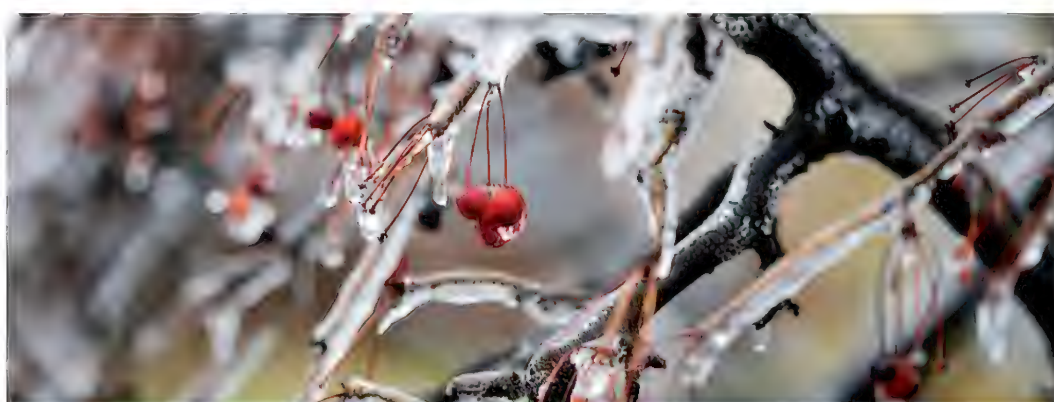
tour" with the Members' Board and volunteers extra hours at Garden festivals.

"I like to be that greeter and see the crowds of people," Ron says. "I come home and Fran asks 'How was your day?' How could it not be a good day at the Garden? People come in and ask questions and then come out and tell you how beautiful the Garden is."

Ron suggests people visit the Garden frequently to find their favorite spots. His own include the gazebo in the English Woodland Garden and the Japanese Garden in all seasons. "I tell people to come at least once a month," Ron says. "And don't skip the winter. You don't know what you miss after the rain or snow."

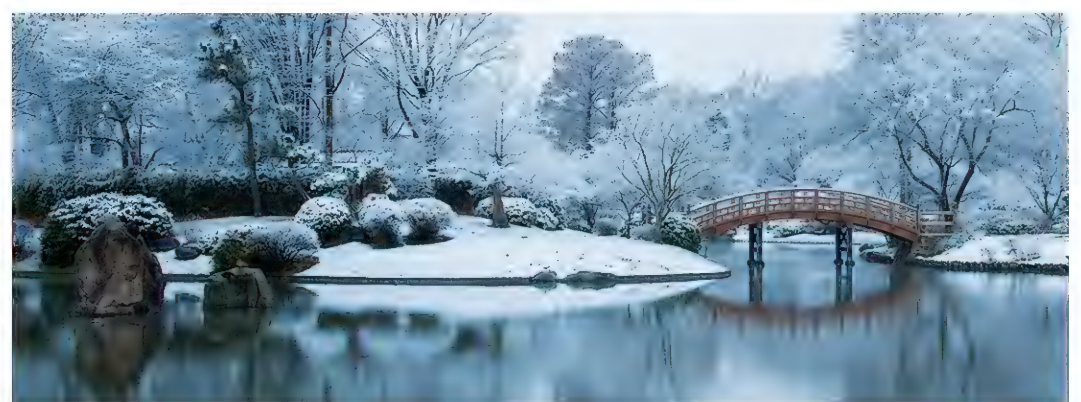
Ron and Fran have also decided to extend their relationship with the Garden beyond their lifetimes. They have joined the Heritage Society and included the Garden in their estate plans.

"We enjoy the Garden so much. We don't have kids, and when we thought about what to do with what might be left, that's what was first on our mind," Ron says. "I admire Dr. [Peter] Wyse Jackson's method and approach to the Garden's history. I think it will be nice to be a part of continuing that into the future."



## Year-End Giving Through Retirement Plans

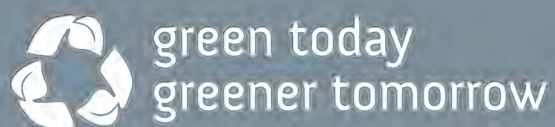
Did you know that if you are at least 70.5 years old, you can make a tax-free gift to the Garden from a traditional IRA? Gifts of up to \$100,000 can avoid income taxes—even if you don't itemize. Contact your attorney or tax advisor for details and read more at [mobot.org/ira](http://mobot.org/ira).



## A Holiday Gift of Stock

Are you thinking about selling publicly traded securities, like stock, before the end of the year? You can make a gift of stock to the Garden to save income tax and capital gains tax. Contact your attorney or tax advisor for details and read more at [mobot.org/stock](http://mobot.org/stock).





The Missouri Botanical Garden strives to make the most sustainable choices possible to benefit people, plants, and the planet. That's why we offer an interactive online version of the *Bulletin* as well as a downloadable PDF. Sign up by sending an email to [membership@mobot.org](mailto:membership@mobot.org). Let us know if you'd like to forego your paper subscription.

You can also send an email if:

- Your name is misspelled
- Your address is incorrect
- You receive more than one copy
- You no longer wish to receive the *Bulletin*



MISSOURI BOTANICAL GARDEN  
4344 Shaw Blvd. • St. Louis, MO 63110

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**Electronic Service Requested**

# ORCHID SHOW

February 2–March 25  
[mobot.org/orchidshow](http://mobot.org/orchidshow)



photo by Wesley Schaefer



Sophia M. Sachs  
**Butterfly House**



**Morpho  
Mardi Gras**

February and March | 10 a.m.–3 p.m.  
Tuesdays–Sundays

Join the party and immerse yourself in a sea of blue with thousands of Blue Morpho butterflies.



**HOT HOT HOT**

January 26–27 | 10 a.m.–3 p.m.

Don't get "bogged down" this winter! See marsh-friendly bugs, enjoy swamp-themed activities, and more.

Both events are FREE for members.  
Included with admission for nonmembers.

[butterflyhouse.org](http://butterflyhouse.org)

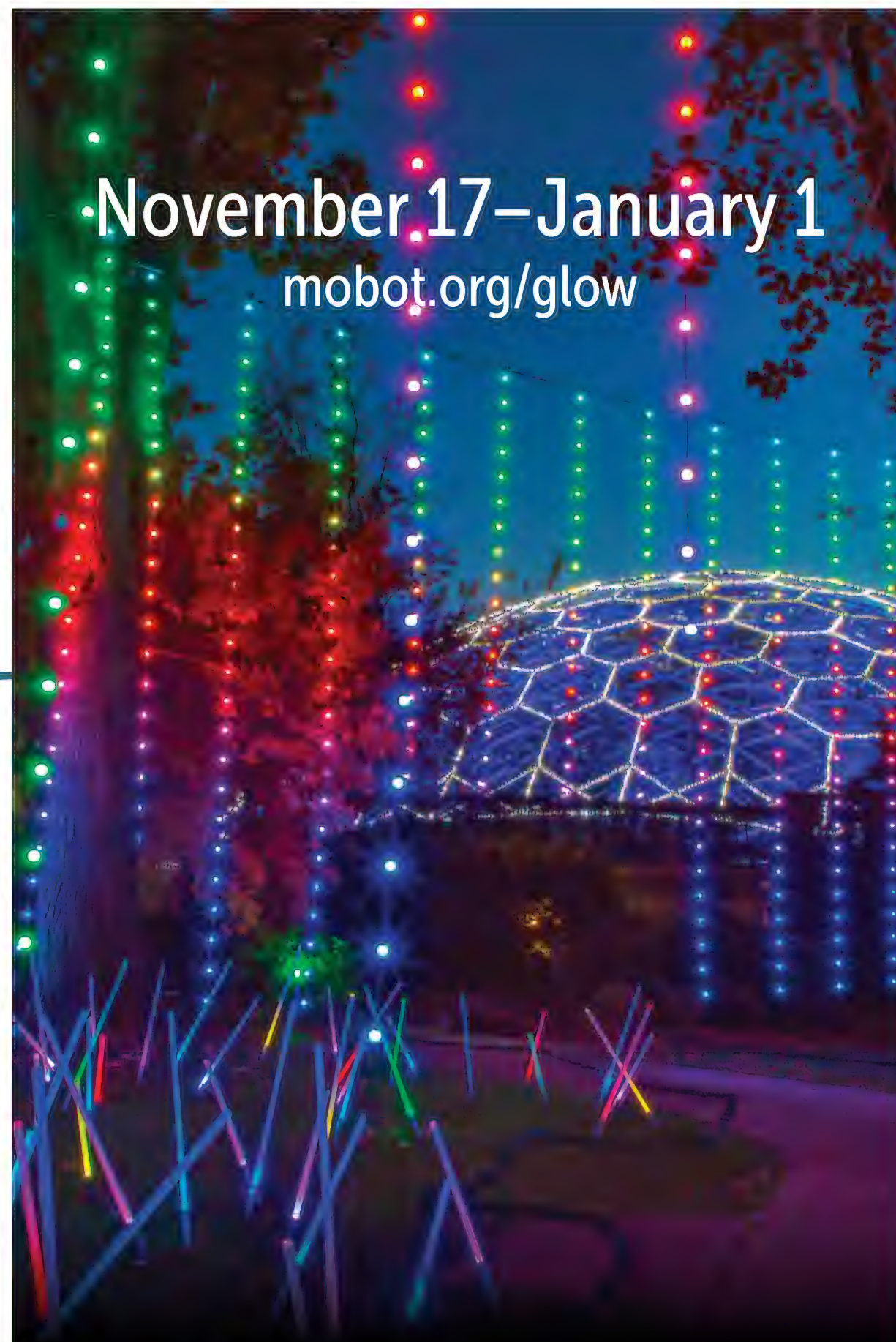
MISSOURI BOTANICAL GARDEN

# calendar

[mobot.org/events](http://mobot.org/events)

december | january | february

November 17–January 1  
[mobot.org/glow](http://mobot.org/glow)



**GARDEN  
GLOW**

*Presented by*



## Trivia Night— *Garden Style*

February 16  
Doors open 6 p.m. | Trivia at 7 p.m.  
Ridgway Visitor Center

Grab your team and join the Young Friends of the Garden for 10 rounds of trivia. Enjoy admission to the Orchid Show, a wine pull, silent auction, 50/50 raffle, and attendance prizes. Beer, soda, and water included. Outside food welcome. Proceeds support the Garden's Sustainability division. \$350/table of 10. Attendees must be at least 21. Advance tickets required.

[mobot.org/trivia](http://mobot.org/trivia)



## Holiday Wreath Display and Auction

November 16–January 1

Monsanto Hall is decked with lavish creations donated by St. Louis's finest florists. Each unique wreath is available for purchase through silent auction. The annual fundraiser is coordinated by the Garden Members' Board. Proceeds benefit the Garden's Horticulture division.

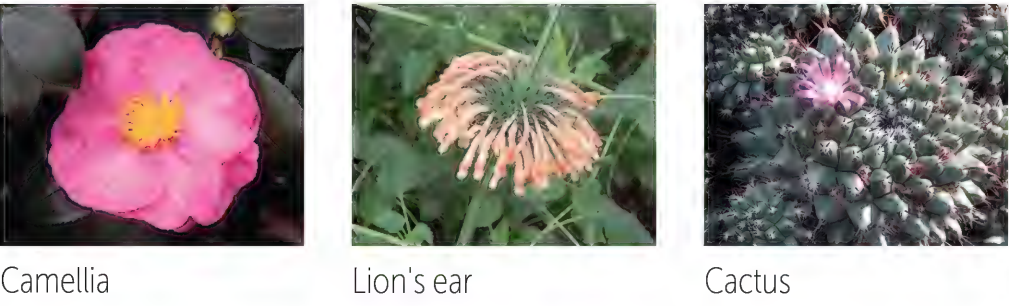
[mobot.org/wreathauction](http://mobot.org/wreathauction)



# december 2018

average temperature: low 26° | high 42°  
average precipitation: 2.86 in.

### What’s in bloom?



|             |                                                                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11/6–12/30  | <b>Winter Jewels</b>   10 a.m.–3 p.m. (closed on Mondays, Christmas Eve, and Christmas Day)   BH                                                             |
| 11/16       | <b>Garden Glow Member Preview</b>   5–10 p.m.<br><br><i>Presented by Wells Fargo Advisors</i>                                                                |
| 11/17–12/30 | <b>Victorian Christmas at Tower Grove House</b><br>Wednesdays–Sundays   Closed Thanksgiving Day and Christmas Day   10 a.m.–4 p.m.                           |
| 11/17–1/1   | <b>Garden Glow</b>   Doors open at 5 p.m.; last entry at 9:15 p.m.   Closed Christmas Eve and Christmas Day   \$<br><i>Presented by Wells Fargo Advisors</i> |
| 11/17–1/1   | <b>Gardenland Express</b>   9 a.m.–4 p.m.   also open during Garden Glow nights   \$ RVC<br><i>Presented by Wells Fargo Advisors</i>                         |
| 11/16–1/1   | <b>Holiday Wreath Display and Auction</b><br>9 a.m.–4 p.m.   RVC                                                                                             |
| 12/1        | <b>Breakfast with Santa</b>   8–11:30 a.m.     \$ RVC<br><i>Presented by Macy’s Gives</i>                                                                    |
| 12/2        | <b>Chanukah: Festival of Lights</b>   noon–4 p.m.   RVC                                                                                                      |
| 12/7        | <b>Member Double Days</b>     GGS, BHGS                                                                                                                      |
| 12/8        | <b>Saturday with Santa</b>   1–4 p.m.   RVC                                                                                                                  |
| 12/14–12/16 | <b>Supper with Santa</b>   5:30–7:30 p.m.    \$ BH                                                                                                           |
| 12/21–12/23 | <b>Supper with Santa</b>   5:30–7:30 p.m.    \$ BH                                                                                                           |
| 12/26       | <b>Kwanzaa: Festival of the First Fruits</b>   noon–4 p.m.   RVC                                                                                             |
| 12/26–12/29 | <b>Little Shop Around the Corner 50% Off Year-End Clearance Sale</b>   10 a.m.–4 p.m.   LS                                                                   |
| 12/30       | <b>Little Shop Around the Corner 50% Off Year-End Clearance Sale</b>   noon–4 p.m.   LS                                                                      |

# january 2019

average temperature: low 21° | high 38°  
average precipitation: 2.14 in.

### What’s in bloom?



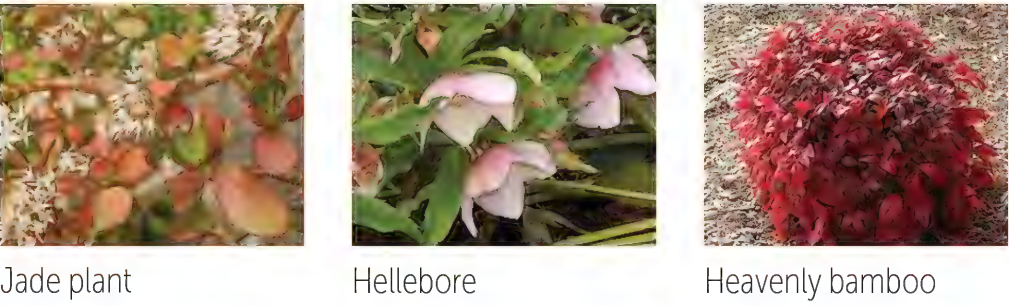
|           |                                                                                                                                                              |
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| 11/17–1/1 | <b>Gardenland Express</b>   9 a.m.–4 p.m.   also open during Garden Glow nights   \$ RVC<br><i>Presented by Wells Fargo Advisors</i>                         |
| 11/16–1/1 | <b>Holiday Wreath Display and Auction</b><br>9 a.m.–4 p.m.   RVC                                                                                             |
| 1/1–1/31  | Little Shop Around the Corner is closed <i>through January 31.</i>                                                                                           |
| 1/1–3/30  | Tower Grove House is closed <i>through March 30.</i>                                                                                                         |
| 1/4       | <b>Member Double Days</b>     GGS, BHGS                                                                                                                      |
| 1/7–1/25  | The Butterfly House is closed <i>through January 25.</i>                                                                                                     |
| 1/15      | <b>Member Speaker Series: The Role of Living Collections</b>   11 a.m.–noon     ST                                                                           |
| 1/26      | The Butterfly House reopens<br>Tuesdays–Sundays   10 a.m.–4 p.m.                                                                                             |
| 1/26–1/27 | <b>Hot! Hot! Hot!</b>   10 a.m.–3 p.m.   BH                                                                                                                  |



# february 2019

average temperature: low 27° | high 44°  
average precipitation: 2.28 in.

### What’s in bloom?



|          |                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------|
| 1/1–3/30 | Tower Grove House is closed <i>through March 30.</i>                                                     |
| 2/1–3/31 | <b>Morpho Mardi Gras</b> , <i>through March 31</i><br>Tuesdays–Sundays   10 a.m.–3 p.m.   BH             |
| 2/1      | <b>Friday Night Flights</b>   5:30–7:30 p.m.    \$ BH                                                    |
| 2/1      | Little Shop Around the Corner reopens<br>Tuesdays–Saturdays   10 a.m.–4 p.m.<br>Sundays   noon–4 p.m.    |
| 2/1      | <b>Member Double Days</b>     GGS, BHGS                                                                  |
| 2/1      | <b>Orchid Show Member Preview</b><br>7–9 p.m.    RVC                                                     |
| 2/2–3/25 | <b>Orchid Show</b>   9 a.m.–5 p.m.   Free for members   \$ RVC                                           |
| 2/2      | <b>Member Speaker Series: Orchid Show Inspiration to Installation</b><br>11 a.m.–noon     ST             |
| 2/8      | <b>Friday Night Flights</b>   5:30–7:30 p.m.    \$ BH                                                    |
| 2/14     | <b>Orchid Nights</b>   6–8 p.m.   \$ RVC                                                                 |
| 2/16     | <b>Trivia Night—Garden Style</b>   6–10 p.m.    \$ MH                                                    |
| 2/21     | <b>Orchid Nights</b>   6–8 p.m.   \$ RVC                                                                 |
| 2/26     | <b>Member Speaker Series: Five Seasons: The Gardens of Piet Oudolf (film screening)</b><br>11 a.m.    ST |
| 2/27     | <b>Member Speaker Series: Five Seasons: The Gardens of Piet Oudolf (film screening)</b><br>7 p.m.    ST  |
| 2/28     | <b>Orchid Nights</b>   6–8 p.m.   \$ RVC                                                                 |



**How do I protect my perennials in the winter?**  
Garden perennials that are winter hardy can still be damaged when the soil freezes and thaws several times during the winter. This freezing and thawing of the soil may loosen or heave the plants, causing roots to break and dry.  
A 2" to 4" layer of organic mulch—leaves, compost, wood chips, or shredded bark—will give winter protection to perennials by preventing these rapid temperature changes of the soil. This mulch will also reduce deep penetration of frost and excessive loss of moisture. The mulch should be applied after the soil begins to freeze.  
A final word of caution: For added protection, be sure to buy perennials that are winter hardy in your area. A reliable nursery or garden supply center will be able to guide you in your selection. Also, avoid planting perennials in poorly drained locations where they might be subject to winter root rot.  
More advice and tips at [mobot.org/gardeninghelp](http://mobot.org/gardeninghelp).

**Plant Societies’ Shows and Sales**  
Get the latest information about your favorite plant society’s show and sale by visiting [mobot.org/plantsocieties](http://mobot.org/plantsocieties).

|                                                                                   |                                            |     |                                             |
|-----------------------------------------------------------------------------------|--------------------------------------------|-----|---------------------------------------------|
| <b>Key</b> ( <i>All events take place at the Garden unless otherwise noted.</i> ) |                                            |     |                                             |
| BH                                                                                | Butterfly House                            | KC  | Kemper Center for Home Gardening            |
| BHGS                                                                              | Butterfly House Gift Shop                  | LS  | Little Shop Around the Corner               |
| CA                                                                                | Cohen Amphitheater                         | MC  | Monsanto Research Center                    |
| CBEC                                                                              | Commerce Bank Center for Science Education | MH  | Monsanto Hall (in RVC)                      |
| CHD                                                                               | Children’s Garden                          | RVC | Ridgway Visitor Center                      |
| CL                                                                                | Climatron lawn                             | SNR | Shaw Nature Reserve                         |
| GGS                                                                               | Garden Gate Shop                           | SP  | Spink Pavilion                              |
| JE                                                                                | Jordan Education Wing (in RVC)             | ST  | Shoenberg Theater (in RVC)                  |
|                                                                                   | Sassafras                                  |     | Members-only event                          |
|                                                                                   | Double punches at Garden Gate Shop         |     | Double punches at Butterfly House Gift Shop |
|                                                                                   | Reservations required                      |     | Fee required                                |

photos by (front) Marissa Billmeyer, Claire Cohen, Sonya Lalla, Mary Lou Olson, and Jered Willis  
(this page) Karen Fletcher and Tom Incrocci,



# bulletin

Spring 2019  
Vol. 107, No. 2  
[mobot.org](http://mobot.org)



MISSOURI BOTANICAL GARDEN





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Thank you! Your membership provides critical support for our international and local plant science and conservation work, and Garden memberships and contributions provide 23% of our annual operating funds.  
To learn more about the benefits of your membership, visit [mobot.org/membership](http://mobot.org/membership), email [membership@mobot.org](mailto:membership@mobot.org), or call (314) 577-5118.

### hours and admission

For hours and admission prices at our three locations, visit [mobot.org](http://mobot.org), [butterflyhouse.org](http://butterflyhouse.org), and [shawnature.org](http://shawnature.org).

### contact

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St. Louis, MO 63110  
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### on the cover

Peonies in the Japanese Garden.  
Photo by John Dedeker.

### credits

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*To discover and share knowledge about plants and their environment in order to preserve and enrich life.*

mission of the Missouri Botanical Garden

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# from the president



Spring is an especially active time at the Missouri Botanical Garden, Shaw Nature Reserve, and Sophia M. Sachs Butterfly House. As colorful blossoms emerge, attracting people and pollinators alike, we are excited to welcome you to enjoy the natural world in a variety of ways at our three locations.

Exploring the great outdoors is a rewarding pursuit for people of all ages, abilities, and aspirations. The more time we spend among the plants around us, the more we discover how critical our surrounding ecosystems are to every facet of our lives (see page 10). Our annual Meet Me Outdoors in St. Louis celebration is a perfect introduction to these unique opportunities. This year we have expanded this event throughout the month of April with special activities at the Garden (April 6–7), Butterfly House (April 13–14), and Nature Reserve (April 27–28).

The weekend of April 27–28 brings even more opportunities for celebration as the Garden once again hosts Chinese Culture Days, featuring traditional Chinese art, music, dance, and of course, cuisine. This year’s festival is particularly significant as it coincides with the 40th anniversary of the sister city partnership between St. Louis, Missouri, and the city of Nanjing, China. Given the rich history of collaboration between the Garden and the botanical institutions of Nanjing (see page 14), we are honored to be an integral part of the commemoration of this milestone.

We recently achieved another milestone thanks entirely to you, our members. Your membership gifts and support over the last year raised more than \$6 million toward the Garden’s mission, the largest annual sum donated by our 47,000+ member households in the Garden’s 160-year history (see page 4). Every display bed we plant, every special event we host, and—most importantly—every plant discovery we achieve is made possible through your generosity.

That above all is cause for celebration, and I hope you will find time this season to join us and appreciate your own part in helping the Garden grow as both a local treasure and an international resource in the preservation of our truly great outdoors.

Dr. Peter Wyse Jackson, *President*



# what's new?

## Garden for the World Update

Progress on the Oertli Family Hardy Plant Nursery will reach exciting milestones this spring. Despite some material delays, the Oertli Nursery is on pace to have a functional greenhouse at the end of February. The greenhouse includes state-of-the-art environmental controls, including smartphone integration for remote access and monitoring. Gravel has also been laid for the construction of the first of four cold frame hoop houses, which are essential for overwintering plants at the nursery.

This spring will also mark the first phase of mass propagation of hardy woody plants for the Garden grounds. This process is integral to our long-range planning for replacement and development of larger plants, including trees and hedges. It is also an important component of preserving the Garden's living collection for conservation purposes.

Learn more at [mobot.org/hardyplantnursery](http://mobot.org/hardyplantnursery).

## Garden Expands with New Office Space

More than two dozen staff members are settling into new office space this spring. The Bertha Pfautch Annex houses the Garden's Human Resources and Communications teams. The building, located at 2236 Tower Grove Avenue, was donated by the Pfautch family and renovated by the Garden. Originally built as an orphanage in 1915, the building most recently served as offices for a religious organization.

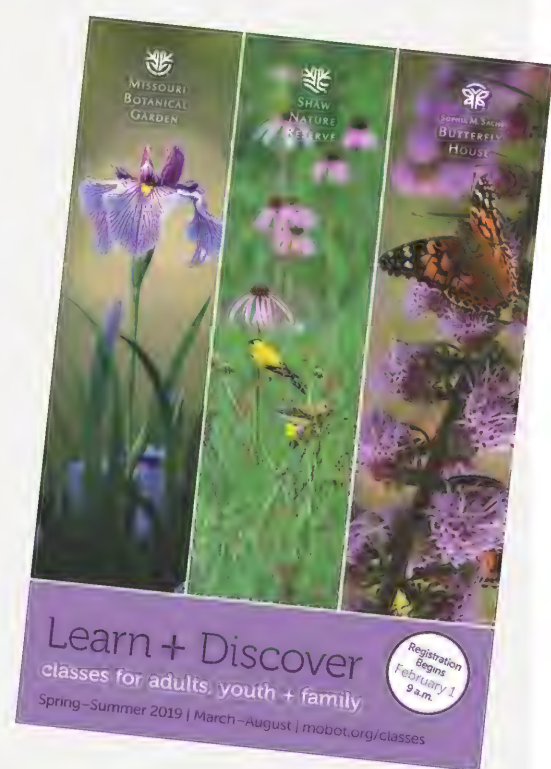


## Spring and summer class registration is now open!

Don't wait—register now for classes offered in spring and summer 2019. From gardening practices to nature study and everything in between—the Missouri Botanical Garden offers a full range of classes for adults, families, and children of all ages.

The Garden, Butterfly House, and Shaw Nature Reserve offer weekend, evening, and weekday classes and programs year-round!

Register online at [mobot.org/classes](http://mobot.org/classes).



## Members Help the Garden Grow

Cheers to membership! The Garden's 47,000+ member households raised more than \$6 million in 2018, ranging from the \$50 Individual level to the \$25,000+ Chairmen's Circle. Thank you for your incredible support!

## Museum to Host Exhibit Chronicling Gardening at Japanese American Internment Camps

In partnership with the St. Louis chapter of the Japan America Citizens League (JACL), the Garden's Stephen and Peter Sachs Museum will host *Connecting the Pieces: Dialogues on the Amache Archaeology Collection* April 27 through May 12. The exhibit employs interpretive displays and artifacts to share the story of Japanese Americans imprisoned at the Amache Internment Camp in Southeastern Colorado during World War II and the gardens they created while detained.

Exhibit curator Dr. Bonnie Clark of the University of Denver will present a special lecture at the Garden on Sunday, May 5, at 2 p.m. in the Shoenberg Theater. Visit [mobot.org/events](http://mobot.org/events) for more information.





## Young Friends Raise \$270,000 for the Children's Garden

The Doris I. Schnuck Children's Garden continues to flourish and grow, thanks in large part to the support of the Young Friends of the Missouri Botanical Garden. From 2014 through 2018, the Young Friends developed and hosted an average of four special events per year, with all of the proceeds dedicated to physical improvements in the Children's Garden, including new nature instruments, hardscape upgrades, and nature-inspired books. Funds raised by the Young Friends have also supported education staff, program enhancements, and seasonal closing weekend activities in the Children's Garden. Proceeds from 2019 events will benefit the EarthWays Center. Learn more about the Young Friends program—including how you can be a part of it—at [mobot.org/youngfriends](http://mobot.org/youngfriends).

## Garden Joins Xishuangbanna Declaration on Plant Conservation

This January, Garden President Dr. Peter Wyse Jackson joined representatives from more than 35 international botanical gardens at the Xishuangbanna International Symposium at Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, in the Province of Yunnan, China. Reinforcing the theme of the symposium—"Saving All the Plants in a Changing World"—all 200+ participants concluded the conference by unanimously endorsing the Xishuangbanna Declaration on Plant Conservation, a call for all botanical gardens to dedicate their resources toward the goal of preventing the future extinction of any plant species.

After the conference concluded, Dr. Wyse Jackson chaired a review of the Xishuangbanna Garden, making recommendations for its future priorities.

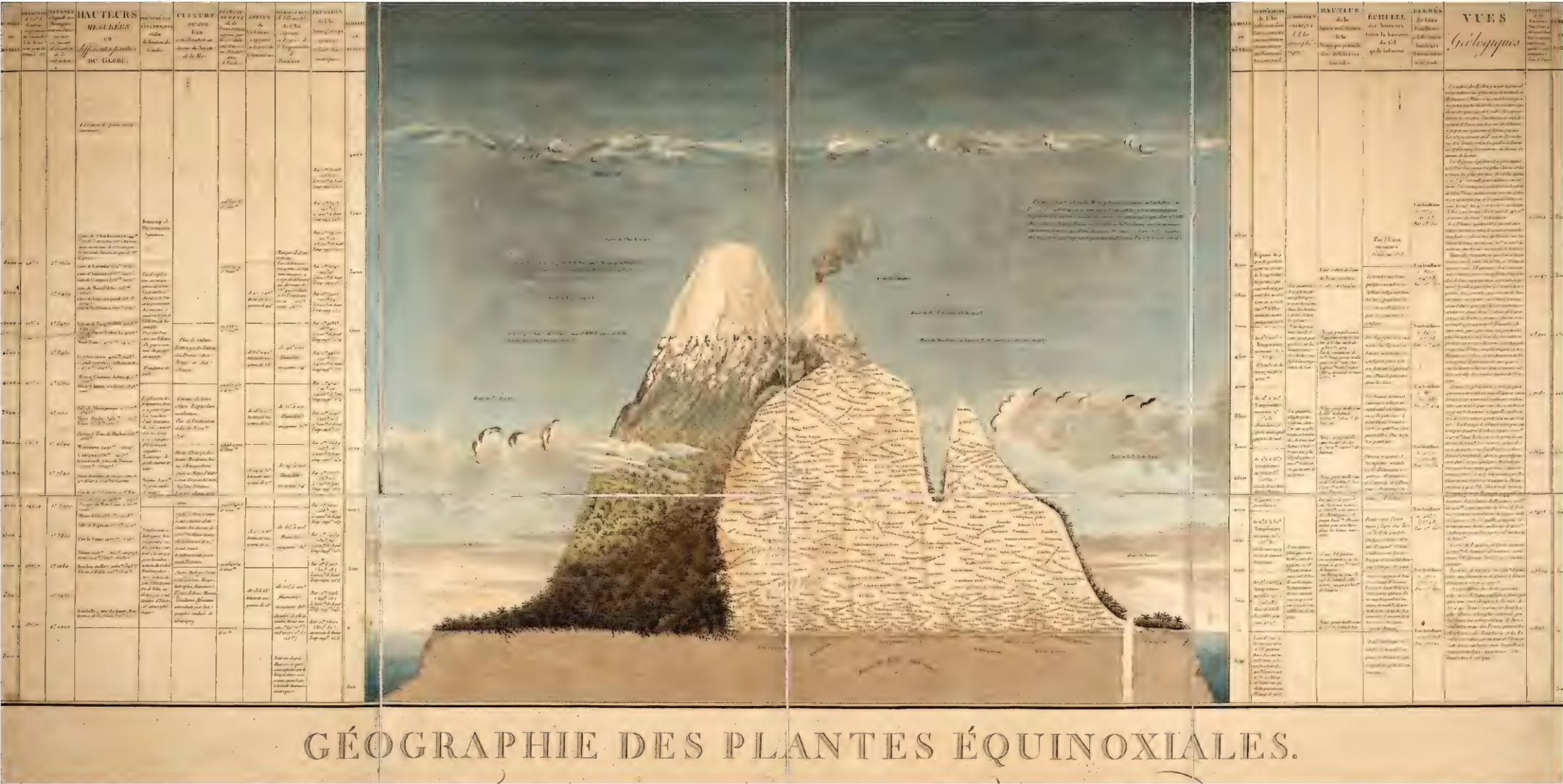


Dr. Wyse Jackson (bottom center) with conference attendees.



Rare Works from the Garden’s Library Hit the Road

Items from the Garden’s rare book collection of the Peter H. Raven Library are traveling the country as part of a new exhibit—*Nature’s Nation: American Art and Environment*. Works on loan from the Garden include an incredibly rare first edition copy of *Systema Naturae* by Carl Linnaeus, and a detailed map of plant geography compiled during an expedition of Alexander von Humboldt at the turn of the 19th century. *Nature’s Nation* is currently at the Peabody Essex Museum in Salem, Massachusetts, through May 5. It’s closest stop to the St. Louis area will be the Crystal Bridges Museum of American Art in Bentonville, Arkansas, from May 25 through September 9.



“Géographie des Plantes Equinoxiales” by Alexander von Humboldt from the Peter H. Raven Library’s rare book collection



Curator’s Corner: Sachs Museum

What a whirlwind year it’s been at the Stephen and Peter Sachs Museum! Since re-opening to the Garden’s public in late April 2018, thousands of visitors have enjoyed the restored building and renovated murals. Special exhibitions featuring the Garden’s collections of artworks and specimens highlighted the work the Garden does in St. Louis—and around the world. These unique displays are the important goal of the Sachs Museum: to weave the history, science, and collections from all parts of the Garden and share narratives that are relevant to all of our publics, from those who visit us every week to those who use the Garden online or see us in their social media feeds. Please keep an eye on our Museum calendar, as we’re planning to showcase some very important plants in future exhibitions, including the history of the spud, the art of our water lilies, and the botany of wine.

Follow the Sachs Museum on Twitter at @MobotMuseum.

photo by Claire Cohen





## Garden Scientist's Book Honored

The Natural History Museum in London named a book by Alan Graham, Curator of Paleobotany and Palynology, as the Best Earth Sciences Book of the Year in its Marsh Awards.

The awards, organized in partnership with the Marsh Christian Trust, recognize unsung heroes who have made a major contribution to the promotion of palaeontology or mineralogy in the UK and abroad. The Best Earth Sciences Book of the Year award was established in 2017 to recognize achievements of authors who published outstanding scientific or academic books in this field of science.

Graham was recognized for his book *Land Bridges: Ancient Environments, Plant Migrations, and New World Connections*, which was published this spring.



## Taking Botany to New Heights

Dr. Robbie Hart  
Assistant Curator

Robbie Hart has always been a mountain man.

From his earliest days growing up in Port Angeles, Washington, Hart has always enjoyed immersing himself in the unique ecosystems of mountain regions. “There’s something really special for me about the first moment in a hike up a mountain when you break through the tree line, and leave the forest behind,” Hart explains.

It might seem odd for an ardent mountain climber to settle in Missouri, where the highest elevation point is 1,772 feet, but Hart’s work for the Garden takes him to places where a unique and diverse set of plants are experiencing a quickly changing climate. Working with a team of international collaborators, he travels to sites in China, Bhutan, and Nepal several times a year to track climate data and survey vegetation in the alpine region, looking for changes over time and observing the impact of those changes on indigenous people.

Being part of the Garden makes such robust collaboration possible. “People really recognize this institution because of the scientists it hosts and the work that it enables,” he explains. “Garden scientists can walk into places in London, Paris, D.C., or Harvard and use their collection because we’re part of this group of elite institutions.”

### Get Involved!

Learn more about Dr. Hart’s work on the Garden’s blog at [discoverandshare.org](http://discoverandshare.org) and follow his observations on Twitter at @oretrephes.



Dr. Robbie Hart (right) takes a tea break with colleagues atop a summit in the Himalayas. Photo by Danielle Northey.

**10%** of all new plants described each year are discovered by Garden scientists



# what can you do?

## Experience the *Vintner's Gala*

Saturday, March 30, 2019 | 6:30 p.m.

Vintners with A. Bommarito Wines will gather at the Missouri Botanical Garden for an exclusive evening of fine wine, gourmet food, and sparkling conversation. Guests will meet global wine experts, sample private vintages, and bid on unique wines in a silent auction while enjoying a sumptuous multi-course meal.

Black tie optional. Valet parking.

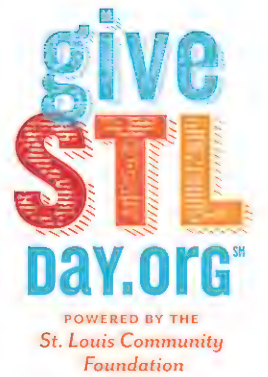
Sponsorship by Tarlton Corporation.

Learn more and purchase tickets at [mobot.org/gala](http://mobot.org/gala).



## Give STL Day 2019

Hundreds of nonprofits across the community come together for a one-day celebration of giving. Join us Wednesday, May 1, and make a special gift to support the Garden. This year, Give STL Day gifts to the Garden honor and support the EarthWays Center and our community sustainability programs. For details, visit [mobot.org/givestl](http://mobot.org/givestl).



## Sample Sake Under the Flowering Cherry Trees

Celebrate the beauty of spring and the season of *hanami* by sipping sake under the cherry blossoms (*sakura*) in the Japanese Garden (*Seiwa-en*) on April 5 from 5:30 to 8 p.m. Specialists will be on hand to guide your sake sampling adventure. Attendees will receive a one-of-a-kind keepsake masu cup to enjoy samples and will have the rare opportunity to explore Teahouse Island. Traditional Japanese cuisine will be available for purchase. \$20 for members; \$25 nonmembers. Tickets and information at [mobot.org/drinks](http://mobot.org/drinks).

## Take the City Nature Challenge

The City of St. Louis and the Garden's BiodiverseCitySTL network will join more than 160 other cities around the world in the fourth annual City Nature Challenge April 26–29. The competition, organized by the citizen science team at iNaturalist, aims to see which city and/or region can document the most species over a four-day period. In 2018, the St. Louis team of 642 participants made 10,482 observations of 1,023 species. Help increase our region's eco-literacy by taking part in this year's challenge. For more information, visit [citynaturechallenge.org](http://citynaturechallenge.org).



## Give the Gift of the Garden

Consider a gift of Garden membership to honor a beloved educator, as a unique wedding present, or as a special gift for Mom. Order by April 19 to ensure delivery by Mother's Day. Visit [mobot.org/membership](http://mobot.org/membership), call (314) 577-5118, or visit the Membership Services Desk to purchase a gift membership.

photos by Kent Burgess and Phoebe Mussman





## Meet the Garden's Science and Sustainability Experts

On March 9 from 10 a.m. to 4 p.m., two of the Garden's rarely seen behind-the-scenes areas will be open to the public. Meet our scientists at the Monsanto Research Center and learn how they collect, study, and conserve plants. You can also learn about the Garden's sustainability programs by joining EarthWays Center staff at the Commerce Bank Center for Science Education. The event is free and open to the public. For more info, visit [mobot.org/openhouse](http://mobot.org/openhouse).

## Savor the View

Enjoy Sunday brunch with a beautiful view of the Garden's Central Axis as Café Flora resumes weekly walk-up dining service Sunday, March 31 from 10 a.m. to 2 p.m. Browse the menu at [mobot.org/cafe flora](http://mobot.org/cafe flora). (Sundays only)

## put some SPRING in your step

Grab your running shoes and join us for three fun runs/walks surrounded by nature's stunning landscapes. Save more than 15% when you sign up for all three runs. Learn more and register today at [mobot.org/run](http://mobot.org/run).

### Daffodil Dash (5k)

April 6 | 9–10 a.m. | Shaw Nature Reserve

\$30 members and virtual runners; \$40 nonmembers

Advance registration required.

All proceeds benefit Shaw Nature Reserve.

### Tulip Trot (5k) | *Presented by Macy's Gives*

April 14 | 7–9 a.m. | Missouri Botanical Garden

\$30 members and virtual runners; \$40 nonmembers

Advance registration required.

All proceeds benefit the EarthWays Center.

### Springtime Sprint (Fun Run)

May 11 | 8–9:30 a.m. | Sophia M. Sachs Butterfly House

\$30 members and virtual runners; \$40 nonmembers

Advance registration required.

All proceeds benefit the Butterfly House.



Celebrate the great outdoors all April as each of our locations host special activities, tours, music, and more. Visit [mobot.org/meetmeoutdoors](http://mobot.org/meetmeoutdoors).

April 6–7: Missouri Botanical Garden

April 13–14: Butterfly House

April 27–28: Shaw Nature Reserve







# GROWTH

## in the great outdoors

*The transformative power  
of plants, people, and places*

By Sheila Voss,  
Vice President of Education



### **"I won't hike," the 12-year old said.**

I paused, not exactly sure how to respond. As one of the parent chaperones on a recent Girl Scout outing, I needed this girl to get out of the car. We had arrived at our destination. It was a beautiful, perfect morning.

"We're here. C'mon, let's go," I encouraged her, as my daughter and the other girls tumbled over each other to get out, excited to stretch their legs and start the day.

"I'm not hiking," she repeated. A new member to our troop, this was her first outing with us.

"What's wrong?" I asked. I was honestly confused. We were there for an all-day badge program to learn about trees, forests, and forestry careers. We had talked about it in the weeks prior, and in the car ride there. Why this sudden resistance?

"I'll walk with you all. But I don't want to hike. I am NOT hiking."

I think my mouth fell open a bit. It took me a few moments to fully appreciate that this 12-year-old, smart, vivacious, outgoing young person did not have a personal understanding of the word "hike," and in her mind, had equated it to something to be feared or avoided. This made me deeply sad on many levels.

After a few moments, I took a deep breath, and smiled at her worried face.

### **"Well, then...let's just take a walk."**





While it hurts my head and heart to acknowledge it, it is not uncommon to encounter a person who has little to no affinity for being outdoors.

Thousands of peer-reviewed articles and books have documented this phenomena, pointing to a host of factors: safety fears, technology habits, lifestyle trends, societal values. Much has been written about the growing disconnect between humans, especially children, and the living world. Childhoods spent walking in woods, wading in creeks, making whistles out of weeds, and falling asleep to wind and frog-song are fading fast. While it's heart-wrenching to witness this loss manifest in the youngest among us, it's just as troubling to consider the consequences of this disconnect manifesting in people of all ages who are living, working, and making everyday decisions in the here-and-now.



Without a personal, experience-driven understanding of plants and the natural world, we undervalue our natural assets and as a result, undermine our own health and well-being.

Many of us at the Garden think about this a lot. And while many of the causes and trends associated with this disconnect may be out of our control, one basic truth remains: More often than not, plants are the answer.

Not only do we need more people of all ages and abilities experiencing the extraordinary plants all around them, we need more plants in more places where people are. We need more plants in places where they can clean our air and water, cool our urban heat-islands, protect us from extremes, feed us, heal us, connect us, and beautify our communities. We need plants in places that can serve as much-needed habitat corridors connecting a fragmented world. We need plants in places that can inspire daily awe and wonder among young and old alike. This is the type of nature-inspired “growth” our greater St. Louis region is well-positioned to pursue.



Fortunately, we're already doing just that. Our region is home to an impressive network of natural assets—forests, farmlands, wetlands, grasslands, bluffs, caves, parks, trails, and an iconic river confluence like none other. It's also home to an unparalleled human network of biodiversity advocates, ranging from conservation organizations, government agencies, and municipalities to businesses, schools, universities, and community groups. Together, these assets—both places and people—are creating a tipping point in our region in recent years, one characterized by more people working together to value, care for, and in some cases, connect these special places. As a major player in this ecosystem of activity, the Garden has invested in two basic strategies: celebrate, then activate.





## Celebrate

Every chance we get, Garden staff and volunteers strive to directly connect people with plants and the living world in personally relevant ways. Whether participating in a trail run through an oak-hickory forest, volunteering to remove invasive bush honeysuckle, or surrounding one's home, school, or workplace with healthy green living things, we find that the more people are around plants, the more plants they want to be around.

To help people connect with nature wherever they are, the Garden celebrates our region's outdoor gems through the *Meet Me Outdoors in St. Louis* campaign, a series of events at Garden sites followed by a year's worth of nature-inspired adventures across the bi-state region.

## Activate

The Garden practices its love for plants through action—discovering new species, propagating at-risk plants for conservation programs in the field, and restoring degraded habitats close to home and around the world. But we need help: to reach the tipping point, we must do everything we can to activate the millions of people who engage with us every year.

In the St. Louis region, activation takes many forms. With early childhood audiences, our Sprouting Science program helps schools create nature-rich habitats in their schoolyards. With teens, our long-standing Eco-Act Environmental Leadership Program and the more recent Outdoor Youth Corps summer jobs program are cultivating the next generation of environmental advocates. With teachers, our professional development series of summits and workshops aims to increase comfort and confidence with outdoor learning. With adults, people taking multiple years of classes with us are encouraged to



pursue Master Gardener or Master Naturalist certification. With businesses, the St. Louis Green Business Challenge promotes biodiversity-friendly practices on corporate campuses. With homeowners, the Deer Creek Watershed Alliance project helps neighborhoods use plant-based solutions like raingardens and bioswales to improve water quality and mitigate flooding.

Activation also takes the form of BiodiverseCity St. Louis, the growing network of 100+ organizations and thousands of people who are joining forces to increase biodiversity across the bi-state region in ways that connect our communities and improve quality of life for all. Since

photos by Karen Fletcher, Ning He, and Mary Lou Olson



2012 the Garden has served as the behind-the-scenes “backbone” organization of this network, fulfilling the roles of convener, connector, and catalyst. Recently, the BiodiverseCity St. Louis network was tapped to help create a special living inventory and atlas for the region, one that focuses on the natural assets that transcend city and county boundaries. Currently under development, BiomeSTL: Biodiversity of Metropolitan St. Louis is intended as a practical resource for citizens seeking greater connections with local lands and waters, as well as for city and county decision-makers seeking to strengthen their communities through nature-centric design and planning. BiomeSTL is also, at its core, a citizen science and stewardship project. Already, the project has amassed 38,000 observations of local plants, animals, and other organisms submitted by more than 3,000 people across the region.

To be sure, neither celebration or activation are possible if people are not comfortable in the outdoors. On this front, we need everyone to invite their friends, family, neighbors, and colleagues to join them in outdoor adventures this year, taking time to experience the living world in ways most relevant and meaningful to them. Healing the disconnect remains both our biggest obstacle and opportunity. On a daily basis, what we choose to pay attention to matters. In so many ways, simply taking the time to notice nature in the great outdoors—the brilliant, beautiful ways the world comes to life all around us—can be an incredibly powerful and life-changing habit.

## Meet Me Outdoors in St. Louis

This year, we’re embracing the entirety of April as “Meet Me Outdoors in St. Louis” month. On these special weekends, interact with local conservation organizations and experts, make a micro-habitat, ascend up into a tree canopy, shop for native plants, take home a free tree, enjoy music, and pick up the 2019 Nearby Nature Map, a refrigerator-worthy reminder of fun outdoor adventures awaiting you all year long. Opening weekend activities supported by Macy’s.



**April 6–7**

at the Missouri Botanical Garden  
sponsorship by Macy’s Gives



**April 13–14**

at the Sophia M. Sachs  
Butterfly House



**April 27–28**

at Shaw Nature Reserve

### Later that day...

...we took the girls to another part of the reserve, for a walk through a forested bluff canyon filled with mossy rocks and a quiet stream.

We asked them to stop, stand still, listen, and breathe. After a few minutes, we asked them how this place makes them feel.

“Peaceful.” “Relaxed.”

“Energized.” “Happy.”

“Strong,” announced the non-hiker.

**Personal growth,  
brought to you by  
a walk in the woods.**





# 40 YEARS OF FRIENDSHIP



"The Chinese flora is extremely important horticulturally. A large parentage of plants in the Garden originate from China, and our collaboration continues to grow in support of horticulture and plant conservation.

– Andrew Wyatt, Senior Vice President  
of Horticulture and Living Collections

The traditional Chinese pavilion and marble bridge—gifts to the Garden from the city of Nanjing in honor of the 15th anniversary of the St. Louis-Nanjing sister city partnership—were crafted in China, disassembled, shipped to the United States, and reassembled piece-by-beautiful-piece at the Garden.



Like the roots of a plant growing deeper over time, the bonds between siblings often strengthen with age. As 2019 marks the 40th anniversary of the sister city partnership between the Garden's home in St. Louis, Missouri, and the city of Nanjing in the People's Republic of China, the Garden continues to play an integral role in this unique model for international achievement through civic kinship.

## SEEDS OF COLLABORATION

The first agreement of its kind between the United States and China, the St. Louis-Nanjing sister city relationship was established in 1979 to promote mutual understanding through educational, cultural, municipal, and economic exchanges. But such exchanges were already underway between the Garden and botanical institutions in Nanjing. Recognizing mutual scientific interests and similarities in climate that made Nanjing an ideal partner for the horticultural study of certain plant species, the Garden began trading seeds, herbarium specimens, and botanical literature with the Nanjing Botanical Garden and



1981: Missouri Botanical Garden President Emeritus Dr. Peter Raven (top right) examines herbarium specimens with staff at the Nanjing Botanical Garden: (left to right) Professors Chen Shu-liang, Shan Jen-hua, and Sheng Cheng-kui.

other regional institutions in 1974. These exchanges helped form the basis for the Garden's significant involvement in the research, development, and publication of the English-language *Flora of China*, a landmark 25-year project spanning 22 volumes and covering more than 31,000 species of vascular plants.

## THE BEGINNING OF A BEAUTIFUL FRIENDSHIP (GARDEN)

For Garden visitors, the most prominent result of the St. Louis-Nanjing partnership took shape in 1996 with the opening of the Margaret Grigg Nanjing Friendship Garden, or Chinese Garden. Tucked into the trees just west of the Lehmann Rose Garden, the Chinese Garden was modeled on the "scholar's gardens" of the southern provinces of China, near Nanjing, and designed by Chinese-born architect Yong Pan. Garden representatives made several trips to China to identify plant species to populate the Garden, and delegates from Nanjing traveled to St. Louis to consult on the garden's landscaping and rockwork. In exchange for the gift of the ornate pavilion and marble bridge at the heart of the Chinese Garden, St. Louis donated a playground to Xuanwuhu Lake Park in one of Nanjing's most popular recreational areas.



1994: The Friendship Play Area in Xuanwuhu Lake Park was a gift from the city of St. Louis to Nanjing.

## ALL IN THE FAMILY

Far from a sibling rivalry, the Garden's partnership with the city of Nanjing and the Nanjing Botanical Garden continues to flourish four decades on. A flora as vast and diverse as China's is critical to sustaining life, not just across that nation but around the world, making the ongoing collaboration between the Garden and Chinese botanical institutions more important today than ever.

## SECRETS OF THE CHINESE GARDEN



The designs and displays of the Chinese Garden are steeped in symbolism and ancient folklore. Look for these details on your next visit.

- The hues of black, white, gray, and reddish brown embodied in the architectural and landscape elements of the Chinese Garden reflect the traditional colors associated with the Gardens of southern China.
- The dramatic swoop of the pavilion's tiled roof echoes the sweep of neighboring Japanese apricot, Manchurian apricot, and Yulan magnolia tree branches.
- Five stones strategically placed in the pond symbolize the five sacred mountains in China.
- According to legend, every July 7th visitors can hear a couple whispering from heaven in the grape arbor at the garden's northern boundary.

## Chinese Culture Days April 27–28

Join us in celebrating four decades of civic sisterhood when the Garden welcomes delegates, acrobats, and other performers from St. Louis' sister city to our annual festival of Chinese culture.

Learn more at [mobot.org/chineseculturedays](http://mobot.org/chineseculturedays).







# Three of a Kind

New visual trademarks link **Shaw Nature Reserve** and the **Butterfly House** to the **Garden's** iconic brand.

A casual visitor to the Sophia M. Sachs Butterfly House in Chesterfield or the Shaw Nature Reserve in Gray Summit could be excused for not realizing that these two sites are part of the Missouri Botanical Garden organization. Of course, the two are physically separated from the Garden's main campus in St. Louis, but for many years the “looks” of these locations—the logos, color

schemes, and even typefaces associated with them—have emphasized their differences rather than reinforce the collaborative roles they play in the Garden's mission.

While we can't physically bring the Garden's three St. Louis-area sites closer together, new visual identities ensure that the Butterfly House and Shaw Nature Reserve are unmistakably part of the same Garden family.

The **Missouri Botanical Garden** logo was designed in 1972 by Chip Reay of seminal St. Louis-based architecture and design firm Hellmuth, Obata, and Kassabaum, Inc. (HOK). The individual marks that make up the design evoke both the human form and elements of plant life, with a seed pod “cradle” that symbolizes the earth. When combined, these visual concepts represent the core of the Garden's dual concern for plant life and the human world.



The **Butterfly House** has been a part of the Garden organization since 2001—it was about time its visual identity reflected this partnership! By using the same building style, similar shapes, sizing, and typeface, the new Butterfly House logo pairs and mirrors the Garden's identity, emphasizing the shared values and mission of the two locations while distinguishing the importance of pollinators.



As with the other two logos, the new **Shaw Nature Reserve** mark is anchored by the folk symbol for human, emphasizing the “oneness” of humanity and the natural world. But the great diversity of nature offers many different approaches for visual representation. The chosen variation combines three curves that symbolize elements of the Nature Reserve's landscape: hill, river, and trail.





# just for members



photos by Claire Cohen, Mary Lou Olson, Heather Marie Osborn, and courtesy The St. Louis Herb Society

## Members Get More!

From discounts to event previews to exclusive access—your membership gives you more of what you love about the Garden, Butterfly House, and Shaw Nature Reserve.

## Member Speaker Series: Think Spring

March 12 | 11 a.m.–noon  
Shoenberg Theater  
Join Cathy Pauley, owner of Papillon Perennials, to learn what you can do now to get the most out of your garden this spring. Cathy will offer tips for preparing your flower beds for the season and share some of her favorite native plants for the area. FREE for members; registration required.

## Eggstravaganza: A Springtime Family Celebration

April 13 | 9:30–11:30 a.m.  
Check in at Linnean Plaza  
Hop around the Garden to collect eggs, meet live bunnies, and enjoy springtime music, photo opportunities, and hands-on nature activities. Event intended for children 12 and under. FREE for members; timed registration required.

## Member Speaker Series: Nine Scents Every Herb Garden Needs!

April 23 | 11 a.m.–noon  
Shoenberg Theater  
Join Anne Cori of the Kitchen Conservatory and The St. Louis Herb Society to learn tips and tricks for turning your garden into a symphony of scents. FREE for members; registration required.





Information and registration at (314) 577-5118 or [mobot.org/memberevents](http://mobot.org/memberevents) unless otherwise noted.



## Member Preview: The St. Louis Herb Society Sale

May 2 | 5–8 p.m.

Bring your membership card for first pick of the more than 120 different herb varieties available for purchase. Receive expert herb selection and care advice from members of The St. Louis Herb Society. The sale continues through May 4 (while supplies last).

## Little Shop Around the Corner Member Open House

May 8 | 10 a.m.–5 p.m.

Browse one-of-a-kind finds and save 40% on all purchases with your current membership card at this bi-annual sale. All shop proceeds benefit the Garden's research and education programs.

## Member Preview: Spring Wildflower Market

May 10 | 2–7 p.m.

Shaw Nature Reserve  
Choose from a wide selection of native annual and perennial wildflowers, ferns, trees, and shrubs during this popular sale. Enjoy live music with beer, wine, and food for sale. The market continues for the public on May 11.

## Member Speaker Series: Bellefontaine Cemetery and Arboretum

May 21 | 11 a.m.–noon

Shoenberg Theater  
Bellefontaine Cemetery and Arboretum offers a unique blend of history and horticultural diversity. Come explore this history and Bellefontaine's many connections to the Garden. FREE for members; registration required.



# special events



## Botanical Art Worldwide: America's Flora Exhibit

now–May 5

9:30 a.m.–5 p.m. | Sachs Museum

Enjoy 46 botanical works of art celebrating America's native plants. Curated by the American Society of Botanical Artists. Included with admission.



## Chinese Culture Days

April 27–28 | 9 a.m.–5 p.m.

*Sponsored by Glory Light International Ltd.*

[mobot.org/chineseculturedays](http://mobot.org/chineseculturedays)

Celebrate traditional Chinese art, music, cuisine, and more at this annual festival featuring a Grand Parade with a 70-foot dancing dragon, interactive dance and acrobatics, and special tours in the Grigg Nanjing Friendship Garden (see page 14). \$8 for members; free for Festival level and above; free for member children; \$16 nonmembers; \$5 nonmember children (ages 3–12).



now–March 31 (closed Mondays)

10 a.m.–3 p.m. | Butterfly House

Bring your Krewe to the carnival! Join the party, see bugs on parade, make a masquerade mask, and immerse yourself in a sea of blue as we fill the tropical conservatory with thousands of blue morpho butterflies. Included with admission.



## Herb Days

May 3–4 | 9 a.m.–5 p.m.

Orthwein Flora Display Hall

*Presented by The St. Louis Herb Society*

Shop more than 100 varieties of herbs! Included with admission; free for members. Members also get first pick on May 2 (see page 19).

## Grapes in the Garden

May 10 | 5:30–8:30 p.m.

*Presented by Schnuck Markets, Inc.*

Taste more than 250 wines and sample gourmet foods while enjoying live music and a beautiful



spring evening in the Garden.

Attendees must be at least 21. \$40 for members; \$50 nonmembers.

Tickets required: [mobot.org/drinks](http://mobot.org/drinks).



April 5 | 5:30–8 p.m.

Celebrate the beauty of spring and the season of *hanami* by sipping sake under the cherry blossoms (*sakura*) in the Japanese Garden (*Seiwa-en*). \$20 for members; \$25 nonmembers. Tickets required: [mobot.org/drinks](http://mobot.org/drinks)



## Fancy Tea with Mommy & Me

May 4 | 10–11:30 a.m.

May 5 | 10–11:30 a.m. and 2–3:30 p.m.

Butterfly House

Don't be late for this very important date! We'll be eating tasty treats and sipping on delightful drinks in Wonderland. \$15 Garden members; \$20 nonmembers. Tickets required: [butterflyhouse.org](http://butterflyhouse.org).

## FEST-OF-ALE



May 17 | 6–9 p.m.

Sip your ales, lagers, and other local brews at the 12th annual Fest-of-Ale. Ticket price includes commemorative tasting glass, unlimited sampling, and live music. Food available for purchase. Attendees must be at least 21. \$30 for members; \$40 nonmembers; \$15 designated drivers. Advance registration required: [mobot.org/drinks](http://mobot.org/drinks). All proceeds benefit the EarthWays Center.



From gardening tools and unique toys to vintage items and local products, the Garden shops have just what you're looking for.

Look for these icons to know where each event or sale is taking place.



## Garden Gate Shop

4344 Shaw Blvd.  
St. Louis, MO 63110  
Monday–Sunday  
9 a.m. to 5:30 p.m.  
(314) 577-5137



## Butterfly House Gift Shop

15193 Olive Blvd.  
Chesterfield, MO 63017  
Tuesday–Sunday  
10 a.m. to 4 p.m.  
(314) 577-9477



## Little Shop Around the Corner

4474 Castleman Ave.  
St. Louis, MO 63110  
Tuesday–Saturday  
10 a.m. to 4 p.m.  
Sunday, noon to 4 p.m.  
(314) 577-0891

## Member Rewards Card at the Butterfly House

Did you know that, in addition to the Garden Gate Shop, you can use your Member Rewards Card at the Butterfly House Gift Shop? For every \$25 you spend at both shops, you earn a punch. A fully punched card is worth \$40 in either shop. Special events when members earn double punches are site-specific. Look for the symbols   in the calendar insert.

Did You Know

## First Fridays Are Member Double Discount Days

First Friday of each month |  

All Garden members receive 20% off purchases or double card punches on the first Friday of each month.

## Around the World Wine Dinner

Third Thursday of the month |  
March–October | 7 p.m. | Spink Pavilion  
Travel to wine-producing regions through a five-course dinner paired with a different wine from the same region. \$70 (plus 18% service charge and tax). Advance registration required: (314) 961-7588 ext. 249.

## Café Flora

March 31–September 29 | 10 a.m.–2 p.m.  
Saturdays and Sundays | Spink Pavilion  
Enjoy a delicious brunch at the iconic Spink Pavilion. Call (314) 961-7588 ext. 265 for more information.

## Special Brunches at Sassafras

Easter | April 21 | 10:30 a.m.–2 p.m.  
Mother's Day | May 12 | 10 a.m.–3 p.m.  
Celebrate these special days with brunch at Sassafras, the Garden's café. Price per event: \$39.95 adults, \$19.95 children (ages 5 to 12). Ticket includes same-day admission to the Garden. Advance reservations and payment required: (314) 961-7588 ext. 265.

## Member Double Days

March 12, April 23, May 21 |     
All Garden members receive 20% off purchases or double card punches.

## Bookworm Brunch: Featuring Clifford

April 28 | 10–11:30 a.m. | Butterfly House  
Join the Big Red Dog for stories, yummy food, fun crafts, and activities. \$15 for members; \$20 nonmembers; ages 12 months and under are free.

## Herbaria Trunk Show

May 2, 5–8 p.m. | 

May 3–4, 10 a.m.–4 p.m. | 

Shop handmade artisanal soaps from local vendor Herbaria.

## Little Shop Around the Corner Members Open House Sale

May 8 | 10 a.m.–6 p.m. | 

Members enjoy extended shopping hours and 40% off their purchases (no additional discounts apply). See page 19 for more details.

## Fleur de Lisa Jewelry Trunk Show

May 12–13 | 10 a.m.–4 p.m. | 

Shop unique pieces made by local jewelry designer Lisa Lohman.

## » staff picks

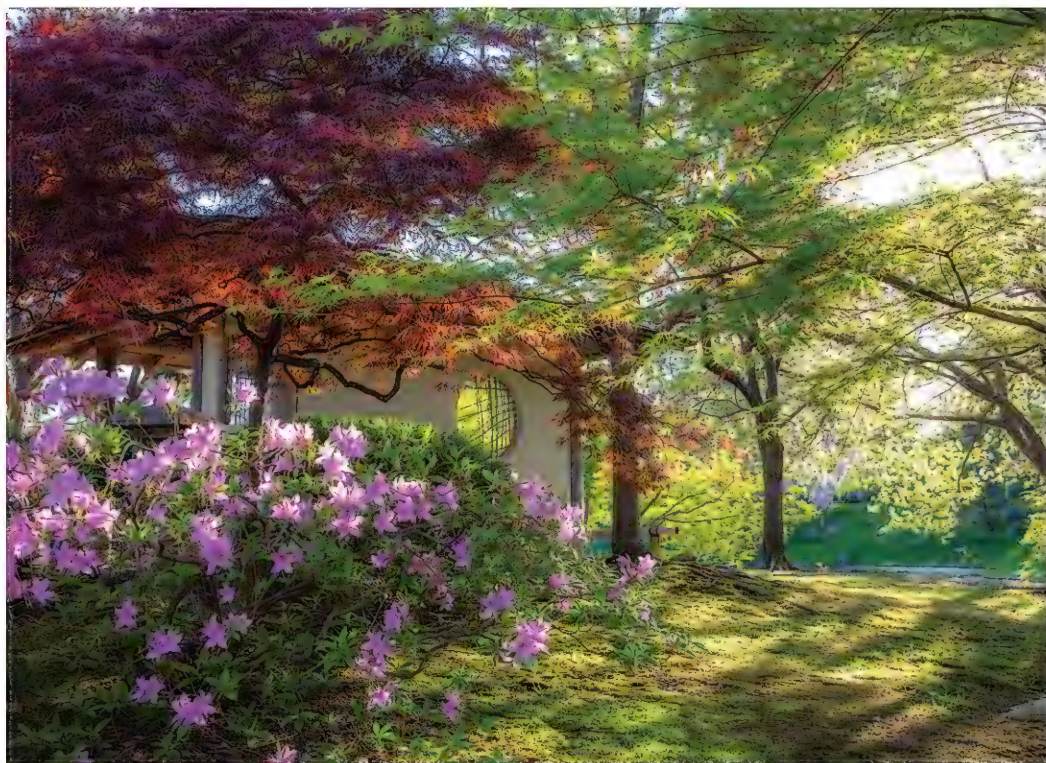


## Reusable Straws

Drink sustainably and in style with reusable Sand Straw stainless steel drinking straws. Each set includes three straws in different colors (representing a variety of sea animals affected by plastic waste) and a cleaning tool. Help keep our rivers and oceans clean and pick up a set today for just \$15 (or \$10 with any purchase) at the Garden Gate Shop.



# commemorative gifts



Light filters onto the Arbor of the Plum Wind (*Azumaya*) in the Japanese Garden.

October–December 2018.

A commemorative gift is a wonderful way to honor family and friends. Gifts of \$100 or more are listed in the *Bulletin*. For more information about giving opportunities, call (314) 577-5118 or make a commemorative gift at [mobot.org/tributes](http://mobot.org/tributes).

## In Honor of

**Nancy R. Burke**

Mrs. Nora R. Stern

**Mr. and Mrs. Richard Dalton**

Mrs. Nora R. Stern

**Skippy Dennis**

Ms. Valerie L. Dennis

**Ann and Steve Desloge**

Peter and Andrea Van Cleve

**Mr. and Mrs. Henry Dubinsky**

Mrs. Nora R. Stern

**Jane A. Eiseman**

Mrs. Nora R. Stern

**Mr. Jason Ellis**

Mr. and Mrs. Thomas H. Saunders

**Lionette Elsesser**

Mrs. Ann J. Key

**Joanne Fogarty**

Dr. Kathryn Fogarty

**Mr. and Mrs. Rexford Hill**

Mr. Gerald Hill

**Mrs. Mary C. Hopkins**

Ellen Cassilly

**Dr. Frederick T. Kraus**

Mr. Grant Kraus

**Mr. and Mrs. Robert E. Kresko**

Crow Holdings

Mrs. Nora R. Stern

**Ned Maniscalco**

Donna Koska

**Mr. and Mrs. James S. McDonell, III**

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**Mr. Brian Saunders**

Dr. John Saunders

**Lucy, Ariana, and Samuel Scheitlin**

Mr. William H. Scheitlin

**Mr. and Mrs. Ned Stanley**

Mrs. Nora R. Stern

**Tarlton Corporation**

Binder Marketing and PR

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Marilyn Crowley

**Peter D. Van Cleve**

Georgia D. Van Cleve Colwell

**Virgil Van Trease**

Stuart and Jane Campbell

Mr. and Mrs. L. B. Eckelkamp, Jr.

Tom and Jennifer Hillman

Nancy and Charles Van Dyke

**Blanche C. Wagner**

Dr. and Mrs. Brent Tetri

**Cheryl Wasserman**

Mrs. Joan C. Switzer

**Mr. Richard B. Whitmire**

Cathy Whitmire

**Mrs. Mary Helen Winsby**

Rick and Carolyn Steinberg

**Dr. Peter S. Wyse Jackson**

Mary C. Pillsbury Wainwright

## In Memory of

**William J. Bangert**

Mr. Manfred Richter

**Gladys F. Barker**

Mr. Laurence Barker

**Nancy Lee Barsanti**

Ms. Tracy C. Green

**Edward G. Bischoff, Jr.**

Betty and David Farrell

**Mary Ann Chapman**

Kim Castro

Elizabeth Eckelkamp

Melanie Fitzgerald

Michael K. Healy

George Reis

Brenda Seliga

Gerard and Elizabeth

Seliga

**Stephen Bryan Clark**

Bates Group LLC

Julia Bittinger

Ms. MaryLou Graham

Mr. Leon Waxer and

Ms. Elna Nagasako

**Dolly D. Darigo**

Mr. Joe Trunko

**Karen Marie Dreher**

David and Cynthia Jacob

**Grace S. Farrell**

Ms. Vivian G. Farrell

**Rev. John C. Fleming**

Virginia R. Campbell

Andy Egan's friends and

college group

**Mr. Frank D. Flotken**

Terry and Paul Flotken

**Ann Elise Foy**

Mary and Michael Arendes

**Toby Lee Gruben**

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Jackie Casey

**Lois Simcoke Heineman**

Corey and Lori Kilkelly

**Alice Hoganson**

Gary and Mary Mindel

Allyson Prewett

**Ikebana International deceased members**

Ikebana International

**Helen S. Jenks**

Mr. and Mrs. J. Rodney Bryan

Colton, Williams & Reamy

Ms. Carol B. Darnall

Thomas Howard Gray Elliott

and Susan S. Elliott

Mrs. Rosalie Ewing

Mr. and Mrs. Lucien Fouke

Mr. and Mrs. Martin E. Galt III

Christopher and Lisa Imbs

Mrs. Ellen E. Jones

The Kloppenburg Family

Mr. and Mrs. John B.

McKinney

Mr. and Mrs. John C.

McPheeters

Dessa A. Morrow

Diana and Jack Reed

Katie and Bill Sackett

Mr. and Mrs. John D.

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Sherri Herren

**Brian LeDoux**

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St. Louis, Inc.

Springfield Orchid Society

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Chanda L. Foster

**Ronald D. Lohse**

Don and Andrea Lohse

Tom, Jamilyn, Holden, and

Campbell Schroyer

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Kathy and Rich Repole

Lauren Repole

Tim and Beth Bates

Jen Blum

Jon Burke

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James and Barbara Hrubes

Tim Lucas

**Carson Lee Mann**

WHS

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Ms. Mary Marx

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Mrs. Dorothy J. McMackin

**Nadine Morrow**

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Mr. James Thompson

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Carole A. Token

**Victoria Witte**

Martin and Marianne

Cavanaugh

Jack and Helga D. Doucette



# commemorative gifts

## MEMBERS ENTRY COURT

October–December 2018.  
For more information,  
call (314) 577-5118 or visit  
mobot.org/donate.

### Engraved Bricks

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Friends and Family of  
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**Alix Johnson**  
Amy Estlund

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Spencer Litzau

**Ellen Luke**  
Ms. Haley E. Luke

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Meloch

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Anonymous

**Floyd Patterson**  
Mr. Kyle Patterson

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Dr. Robert A. Paydon

**Zonamae Pinski**  
Ms. Rene Dulle

**Thomas Pisoni**  
Mrs. Mary Pisoni

**Carol Lee Smith**  
Ms. Helen Heimann

**Jean Sumner**  
Ms. Jean Sumner

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October–December 2018.  
Call (314) 577-5118 or visit  
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St. Joseph–Lake Saint  
Louis Executive Team

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Mrs. Maris Berg  
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Don and Joanne Dalis  
Lon and Rosanne Dunn  
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Eight O One Skinker  
Boulevard Corporation  
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and Holland Families  
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**Donovan Lee Petit**  
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**Patricia Reisinger**  
Mrs. Christine Butler

**Sophia, Corinne, and  
Donovan Wier**  
Richard Wier

## In Memoriam: Pat Jones

The Garden honors the December 2018 passing of a great friend to the environment, Hilda P. “Pat” Jones. Pat and her late husband Edward “Ted” Jones were both great advocates for the natural world. Together, they were instrumental in establishing more than a dozen outdoor spaces across our community for public enjoyment—including the Katy Trail State Park and Ted and Pat Jones Confluence Point State Park.

Pat’s focus on conservation research, restoration of native habitats, and engaging children with nature found natural synergy in the work of Shaw Nature Reserve. She was a valued supporter of the Garden for more than 40 years, with particular interest in restoration and education programs. Pat met with the staff of the Nature Reserve to discuss prairie restoration best practices and developing curricula for nature education.

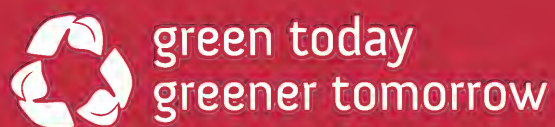
Pat graduated from the University of Missouri in 1950 with a degree from the College of Agriculture. She donated her 711-acre property in Williamsburg to the Missouri Department of Conservation in 1997 to create the Prairie Fork Conservation Area. Through the years, Pat brought more than 35 conservation organizations together to coordinate efforts for native habitat restoration, local conservation, and nature-based education.

We are proud to have been one of the partners in Pat’s vision and remain grateful for her contributions to our community.



Aerial view of the tallgrass prairie in spring at Shaw Nature Reserve.





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# CHINESE CULTURE DAYS

April 27–28 | [mobot.org/chineseculturedays](http://mobot.org/chineseculturedays)

Sponsored by Glory Light International Ltd.



photo by Mary Lou Olson



# eggstravaganza

A Springtime Family Celebration



April 13 | 9:30–11:30 a.m.

Join us for a members-only springtime celebration! Meet live bunnies, and enjoy springtime music, photo opportunities, and hands-on nature activities. Reservations required.

[mobot.org/memberevents](http://mobot.org/memberevents)



MISSOURI BOTANICAL GARDEN

# calendar

[mobot.org/events](http://mobot.org/events)

march | april | may

Chinese Culture Days  
April 27–28



*Sip and stroll with us this spring!*

Learn more and purchase your tickets at [mobot.org/drinks](http://mobot.org/drinks).

Orchid Nights  
March 7 | 6–8 p.m.  
\$15 members; \$20 nonmembers



Sake and Sakura  
April 5 | 5:30–8 p.m.  
\$20 members; \$25 nonmembers

Grapes in the Garden  
May 10 | 6–9 p.m.  
\$40 members; \$50 nonmembers



Fest-of-Ale  
May 17 | 6–9 p.m.  
\$30 members; \$40 nonmembers;  
\$15 designated drivers



Spring Wildflower Market  
at Shaw Nature Reserve

Member Preview  
May 10 | 2–7 p.m.  
Members only

May 11 | 9 a.m.–2 p.m.  
Free for members | \$5 nonmembers

[shawnature.org](http://shawnature.org)

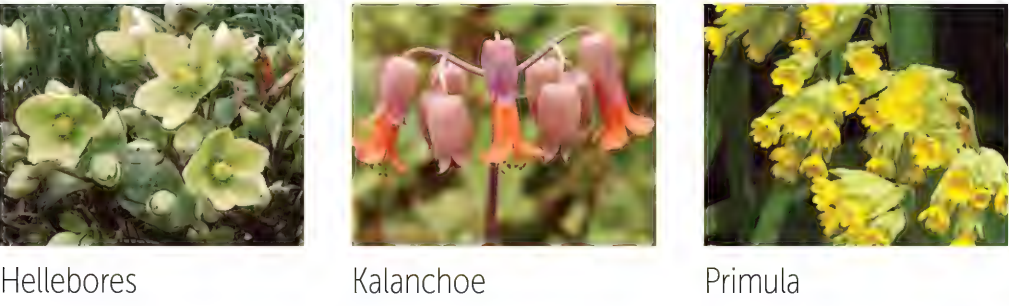




# march 2019

average temperature: low 37° | high 57°  
average precipitation: 3.6 in.

## What’s in bloom?



|          |                                                                                                                                                                                                                                            |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2/2–3/24 | <b>Orchid Show</b>   9 a.m. to 5 p.m.   \$ RVC<br>Free for members                                                                                                                                                                         |
| 2/1–3/31 | <b>Morpho Mardi Gras</b>   (closed Mondays)<br>10 a.m.–4 p.m.   BH                                                                                                                                                                         |
| 3/7      | <b>Orchid Nights</b> (last chance)   6–8 p.m.   \$📍 RVC                                                                                                                                                                                    |
| 3/9      | <b>Science and Sustainability Open House</b><br>10 a.m.–4 p.m.   MC and CBEC                                                                                                                                                               |
| 3/12     | 🌿 <b>Member Speaker Series: Think Spring!</b><br>11 a.m.–noon   📍🔊 ST                                                                                                                                                                      |
| 3/30     | <b>Seasonal Operations Resume (Children’s Garden, Tram Tours, Tower Grove House)</b> through November 3   Children’s Garden: 9 a.m.–4 p.m. daily   Tram Tours: 10 a.m.–4 p.m. daily   Tower Grove House: 10 a.m.–4 p.m. Wednesdays–Sundays |

|      |                                                                                |
|------|--------------------------------------------------------------------------------|
| 3/31 | <b>Café Flora Opens</b>   through September 29<br>Sundays, 10 a.m.–2 p.m.   SP |
|------|--------------------------------------------------------------------------------|

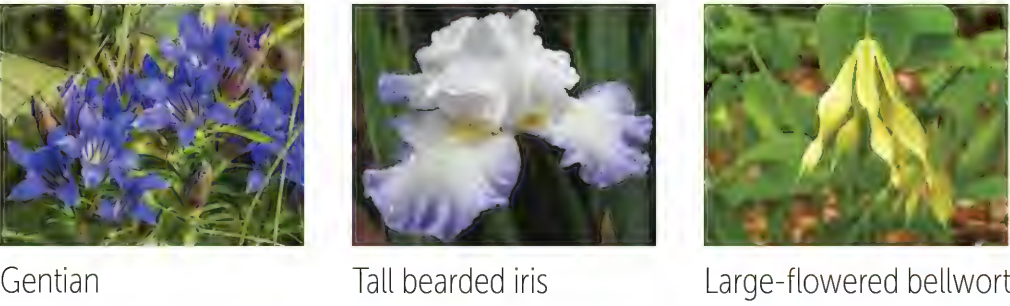
*orchid show*

Now–Mar. 24

# april 2019

average temperature: low 48° | high 68°  
average precipitation: 3.69 in.

## What’s in bloom?



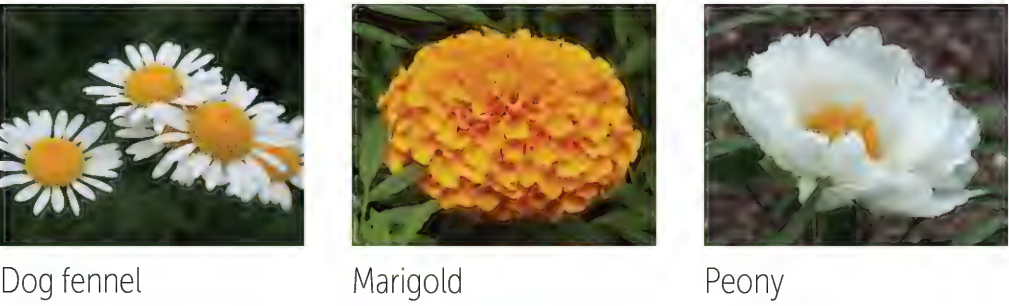
|           |                                                                                            |
|-----------|--------------------------------------------------------------------------------------------|
| 4/5–4/6   | <b>Missouri Arbor Day Tree Giveaway</b>   while supplies last   9 a.m.–5 p.m.   KC         |
| 4/5       | <b>Sake and Sakura</b>   5:30–8 p.m.   🍷 \$                                                |
| 4/6       | <b>Daffodil Dash</b>   9 a.m.   🍷 \$ SNR                                                   |
| 4/6–4/7   | <b>Meet Me Outdoors in St. Louis</b>   10 a.m.–4 p.m.   📍 MBG                              |
| 4/6–4/7   | <b>Pollinator Plant Sale</b>   10 a.m.–3 p.m.   Free for members   BH                      |
| 4/13      | 🌿 <b>Eggstravaganza: A Springtime Family Celebration</b>   9:30–11:30 a.m.   📍🔊            |
| 4/13–4/14 | <b>Meet Me Outdoors in St. Louis</b>   10 a.m.–4 p.m.   BH                                 |
| 4/13–4/14 | <b>Pollinator Plant Sale</b>   10 a.m.–3 p.m.   Free for members   BH                      |
| 4/14      | <b>Tulip Trot</b>   <i>Presented by Macy’s Gives</i>   7–9 a.m.   🍷 \$                     |
| 4/20–4/21 | <b>Pollinator Plant Sale</b>   10 a.m.–3 p.m.   Free for members   BH                      |
| 4/21      | <b>Easter Brunch</b>   10:30 a.m.–2 p.m.   🍷 \$🍷                                           |
| 4/23      | 🌿 <b>Member Speaker Series: Nine Scents Every Herb Garden Needs</b>   11 a.m.–noon   📍🔊 ST |
| 4/27–4/28 | <b>Chinese Culture Days</b>   9 a.m.–5 p.m.   \$                                           |
| 4/27–4/28 | <b>Meet Me Outdoors in St. Louis</b><br>10 a.m.–4 p.m.   SNR                               |

|      |                                                                       |
|------|-----------------------------------------------------------------------|
| 4/28 | <b>Bookworm Brunch: Featuring Clifford</b><br>10–11:30 a.m.   🍷 \$ BH |
|------|-----------------------------------------------------------------------|

# may 2019

average temperature: low 58° | high 77°  
average precipitation: 4.11 in.

## What’s in bloom?



|         |                                                                                                |
|---------|------------------------------------------------------------------------------------------------|
| 5/1     | <b>Give STL Day</b>   all day   mobot.org/givestl                                              |
| 5/2     | 🌿 <b>Member-Only Shopping Hours: Herb Days</b><br>5–8 p.m.   📍 RVC                             |
| 5/3–5/4 | <b>Herb Days</b>   <i>Presented by The St. Louis Herb Society</i><br>9 a.m.–5 p.m.   RVC       |
| 5/4–5/5 | <b>Fancy Tea with Mommy &amp; Me</b>   10–11:30 a.m. or 2–3:30 p.m. (5/4 only)   🍷 \$ BH       |
| 5/8     | 🌿 <b>Little Shop Around the Corner Members Open House Sale</b>   10 a.m.–6 p.m.   LSAC         |
| 5/10    | 🌿 <b>Shaw Wildflower Market Member Preview</b><br>2–7 p.m.   SNR                               |
| 5/10    | <b>Grapes in the Garden</b>   <i>Presented by Schnuck Markets, Inc.</i>   6–9 p.m.   📍🍷 \$ RVC |
| 5/11    | <b>Butterfly House Springtime Sprint</b><br>8–9:30 a.m.   🍷 BH \$                              |
| 5/11    | <b>Shaw Wildflower Market</b>   9 a.m.–2 p.m.<br>Free for members   SNR                        |
| 5/12    | <b>Mother’s Day Brunch</b>   10 a.m.–3 p.m.   🍷 \$🍷                                            |
| 5/12    | <b>Mother’s Day Plant Giveaway</b>   10 a.m.–4 p.m. or while supplies last   BH                |
| 5/17    | <b>Fest-of-Ale</b>   6–9 p.m.   📍🍷 \$                                                          |
| 5/21    | 🌿 <b>Member Speaker Series: Bellefontaine Cemetery and Arboretum</b>   11 a.m.–noon   📍🔊 ST    |

|      |                                              |
|------|----------------------------------------------|
| 5/29 | <b>Whitaker Music Festival</b>   7 p.m.   CA |
|------|----------------------------------------------|



## What spring-blooming plants attract butterflies?

Many of the best-known plants for attracting butterflies to the garden are perennials or annuals that bloom in the summer or fall. These include purple coneflower (*Echinacea purpurea*), Joe Pye weed (*Eutrochium* sp.), and coreopsis (*Coreopsis* sp.). However, butterflies also require both nectar and larval food sources earlier in the season. To help bridge the gap, consider adding a few of these spring-blooming plants to your green spaces: Flowering trees and shrubs such as redbud (*Cercis canadensis*), spicebush (*Lindera benzoin*), and rhododendrons (*Rhododendron* sp.) are great choices for providing food and habitat for butterflies. Spring-blooming perennials that are attractive to butterflies include golden Alexander (*Zizia aurea*), blue false indigo (*Baptisia australis*), chives (*Allium schoenoprasum*), golden ragwort (*Packera aurea*), and wild geranium (*Geranium maculatum*).

For more advice, tips, and resources visit [gardeninghelp.org](http://gardeninghelp.org).

**Plant Societies’ Shows and Sales**

Get the latest information about your favorite plant society’s show and sale by visiting [mobot.org/plantsocieties](http://mobot.org/plantsocieties).

|                                                                                   |                                            |     |                                               |
|-----------------------------------------------------------------------------------|--------------------------------------------|-----|-----------------------------------------------|
| <b>Key</b> ( <i>All events take place at the Garden unless otherwise noted.</i> ) |                                            |     |                                               |
| BH                                                                                | Butterfly House                            | KC  | Kemper Center for Home Gardening              |
| BHGS                                                                              | Butterfly House Gift Shop                  | LS  | Little Shop Around the Corner                 |
| CA                                                                                | Cohen Amphitheater                         | MC  | Monsanto Research Center                      |
| CBEC                                                                              | Commerce Bank Center for Science Education | MH  | Monsanto Hall (in RVC)                        |
| CHD                                                                               | Children’s Garden                          | RVC | Ridgway Visitor Center                        |
| CL                                                                                | Climatron lawn                             | SNR | Shaw Nature Reserve                           |
| GGs                                                                               | Garden Gate Shop                           | SP  | Spink Pavilion                                |
| JE                                                                                | Jordan Education Wing (in RVC)             | ST  | Shoenberg Theater (in RVC)                    |
|                                                                                   |                                            |     | 🌿 Sassafra                                    |
|                                                                                   |                                            |     | 🌿🍷 Members-only event                         |
|                                                                                   |                                            |     | 📍 Double punches at Garden Gate Shop          |
|                                                                                   |                                            |     | 🔊 Double punches at Butterfly House Gift Shop |
|                                                                                   |                                            |     | 🍷🔊 Reservations required                      |
|                                                                                   |                                            |     | \$ Fee required                               |

photos by (front) Lisa DeLorenzo Hager, Jean McCormack, Kat Niehaus, Wesley Schaefer, Charles Schmidt, Sundos Schneider, and Jill Setlich; (this page) Matilda Adams, Bailie Fischer, and Tom Incrocci.



# bulletin



MISSOURI BOTANICAL GARDEN

Summer 2019

Vol. 107, No. 3

[mobot.org](http://mobot.org)



Climatron

Tropical water lily

*Nymphaea*  
*'Tropical Water Lily'*  
*(Nymphaea)*



# contents



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Use what we've learned in our Garden to help you manage yours.

### 14 | Summer of Membership

This summer, members get more! Explore member perks and special events.

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Thank you! Your membership provides critical support for our international and local plant science and conservation work, and Garden memberships and contributions provide 24% of our annual operating funds.  
To learn more about the benefits of your membership, visit [mobot.org/membership](http://mobot.org/membership), email [membership@mobot.org](mailto:membership@mobot.org), or call (314) 577-5118.

### hours and admission

For hours and admission prices at our three locations, visit [mobot.org](http://mobot.org), [butterflyhouse.org](http://butterflyhouse.org), and [shawnature.org](http://shawnature.org).

### contact

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### on the cover

Experience nature illuminated all summer long at Garden Party Lights. Photo by Kent Burgess.

### credits

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*To discover and share knowledge about plants and their environment in order to preserve and enrich life.*

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# from the president



With the longer days of summer comes greater opportunity for you to enjoy time with friends and family at the Missouri Botanical Garden, Sophia M. Sachs Butterfly House, and Shaw Nature Reserve. We are excited to offer a season of new events and benefits—some just for members—and the return of our

beloved annual programs and festivals. I encourage you to learn more about our coming events throughout this *Bulletin* and start planning your next visit.

While we enjoy summer concerts, members-only programs, and special evening parties, our critical plant science and conservation work continues in our community and across the globe. Each year, our research scientists discover ten percent of all the plants described for science; they add hundreds of new species to our Herbarium of 7.5 million specimens. This plant library is available to anyone who wishes to share knowledge and protect plants with us.

Of course, none of this would be possible without the support of you, our members. The Garden's membership program is inspired by the important role members play at the Garden, the need for membership fees to fund our expanding conservation and education work, and the ways members like to experience our three venues.

With this in mind, we are making some minor changes to our membership program this summer as well. Our goal is to continue to offer benefits you value while responsibly raising vital contributions that fund nearly one quarter of our activities here at home and around the world.

These changes—including a slight rate increase at select levels, revised policies for tax deductibility, and enhancements to our giving societies—go into effect on August 1, 2019. Please look for additional details in your membership renewal materials and on our website at [mobot.org/memberupdates](http://mobot.org/memberupdates).

However you choose to spend the days and evenings ahead, I hope you will take a few moments to appreciate the beauty of the biodiversity on display throughout the St. Louis region—and acknowledge the part you play in helping us preserve and protect it. Thank you for supporting the Garden through membership; you make so much possible.

Dr. Peter Wyse Jackson, *President*



# what's new?



Dignitaries from Nanjing, China, presented the gift of two chairs to the Grigg Nanjing Friendship Garden in April.

## Garden Receives Gift of Ornamental Chairs from Nanjing, China

This spring, in celebration of the 40th anniversary of the sister-city partnership between St. Louis, Missouri and Nanjing, China, the government of Nanjing donated two Ming dynasty-style chairs and accompanying table to the Garden's Margaret Grigg Nanjing Friendship Garden. The ceremony was held on April 26, on the eve of the annual Chinese Culture Days Festival. This generous gift marks more than 30 years of partnership and cooperation between the Garden and botanical partners in China. The Chinese Garden also features a pavilion, marble bridge, and marble balustrade from Nanjing. These elements were reconstructed onsite in 1996 under the guidance of experts from the Nanjing Municipal Bureau of Urban Parks and Open Space Administration.



John Lemkemeier



Nancy M. Ross

## New Trustees

The Garden recently welcomed John Lemkemeier and Nancy M. Ross to the Board of Trustees.



## New Vice President

The Garden welcomes Patricia Arnold, CFRE, back to the staff team in the role of Vice President, Institutional Advancement. Patty previously served the Garden for 10 years, leading the development team in a similar role and title. She left in 2006 to become the President of Mercy Health Foundation for Mercy Health System. Most recently, Patty served as the Vice President for Advancement at Webster University. She brings outstanding experience and knowledge established through a distinguished career in advancement and development in the St. Louis area.



## New Exhibit at Tower Grove House

Tower Grove House, founder Henry Shaw's historic home, has been a centerpiece of the Garden since its inception in 1859. The family of William Trelease, the Garden's second director, bore witness to a revolutionary time in American history: navigating the changing family roles, achievements in technological advances, and exploration in scientific discoveries that dominated the Progressive Era of the early 1900s. Learn another chapter of Garden history through the exhibit *Life at Home: The Trelease Family in Tower Grove House*.

Tower Grove House is open Wednesday–Sunday, 10 a.m. to 4 p.m. General Garden admission applies, free for members.



## Have Ewe Heard? The Sheep Are on the Move

The Garden's most popular sculptures have found new pastures for your next family photo-op. The famous sheep statues by Francois-Xavier Lalanne have been moved from their grazing grounds near the Kemper Center for Home Gardening to a new home just 20 feet away. The move will help alleviate traffic back-ups on the main path while children wait their turn to climb and pose atop the sheep. The first of the sheep arrived at the Garden in 1991 on long-term loan from The Greenberg Gallery of St. Louis. In 1997, they were joined by a ram, and the lambs came soon after. In 1999, the whole flock was permanently gifted to the Garden by the Soffer family.



## Victoria Water Lilies Enjoy Extended Season

There's more time this year to enjoy one of the Garden's signature summer plant collections. The giant *Victoria* water lilies were placed in their outdoor pool on May 6 this year, the earliest date in more than a century. The early arrival is thanks to a new heating system installed in 2018, which allows the water to reach an optimal 82 degrees. The leaves of the *Victorias* typically reach six feet or more in diameter, and the extended growing season will help them grow even larger. The best time to enjoy these night-blooming water lilies is during evening events in July and August, such as the Whitaker Music Festival and Garden Party Lights. Work on the new heating system was made possible with a generous donation from Jeanie and Michael Gleason.



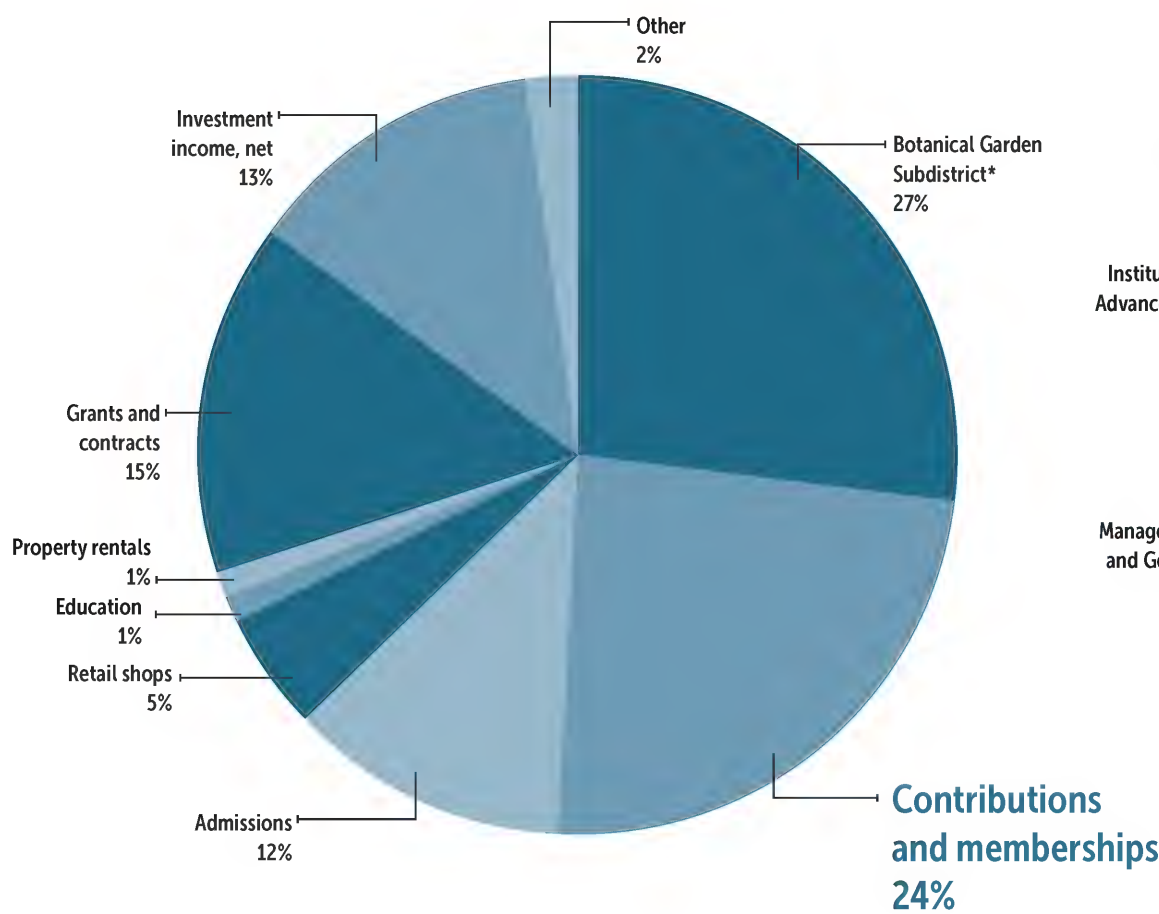
Learn more about the *Victoria* collection on the Garden's blog at [discoverandshare.org](https://discoverandshare.org).

## 24% of the Garden's Operating Support Comes From You

Excerpted from the Garden's 2018 Annual Report, these charts provide an overview of the Garden's sources of support and illustrate how funding is used to advance our mission and strategic goals. Thank you for contributing to our success! To learn more, visit [mobot.org/reports](https://mobot.org/reports) after June 25.

thank  
you!

### Revenue



### Expenses

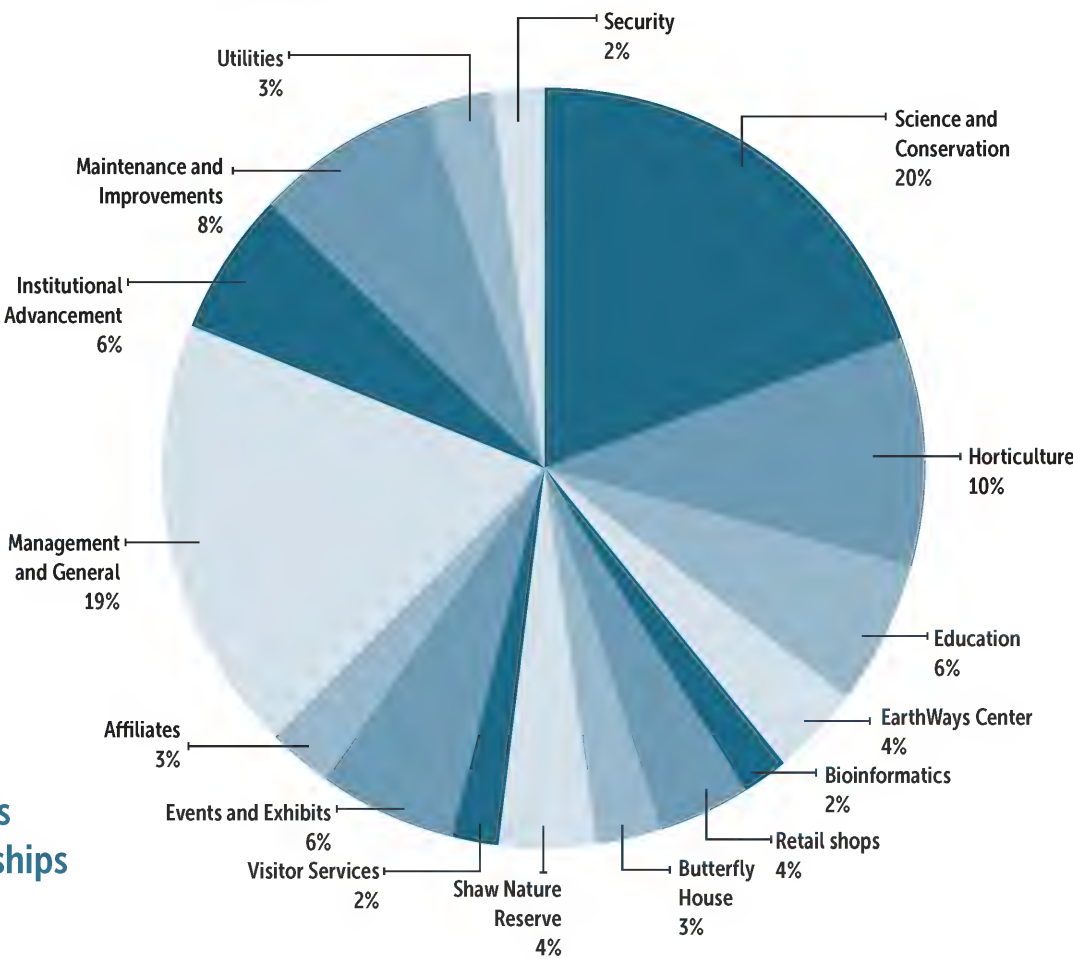


photo by Kent Burgess and Cassidy Moody





Members of the Garden's horticulture staff and their colleagues on a springtime trek to a collection site in Kyrgyzstan.

## Conserving Wild Crop Ancestors

Members of the Garden's horticulture staff will return to Kyrgyzstan this summer as part of an ongoing project to identify and preserve wild ancestors of economically important fruit crops such as apples and pears. This past spring, staff trekked through heavy mountain snow to take cuttings from several target tree species, like the critically endangered Bukharan pear. Those cuttings have been grafted onto root material by the USDA and will be brought to the Garden after a quarantine period. Seedlings sprouted from seed gathered during an earlier trip to Kyrgyzstan are now being cultivated in the Garden's Oertli Family Hardy Plant Nursery. The summer 2019 expedition will focus on gathering additional seed for propagation and seed banking both at the Missouri Botanical Garden and with our partners at Gareev Botanical Garden in Kyrgyzstan.



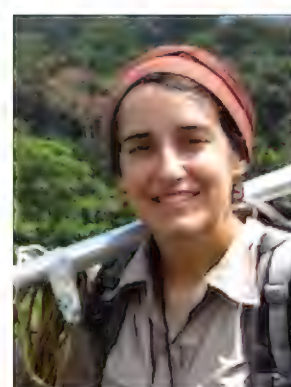
## Dr. James Miller Honored by Academy of Science—St. Louis



Dr. James Miller

Dr. James Miller, Senior Vice President of Science and Conservation, has been awarded the 2019 Outstanding St. Louis Scientist Trustees Award by the Academy of Science—St. Louis. The award recognizes outstanding

contributions in keeping with the Academy of Science's mission of promoting the understanding and appreciation of science. Accomplishments noted by the Academy in its presentation include Miller's significant contributions in the fields of plant taxonomy and systematics and his role as a founding member of the Council of World Flora Online, the consortium of leading botanical institutions working to establish an online global flora by 2020.



## New Krukoff Curator of African Botany

This spring the Garden welcomed Dr. Patricia Barberá to the role of B.A. Krukoff Curator of African Botany. Dr. Barberá recently completed her doctoral studies on a complex group in the grass family, Poaceae, and brings an impressive set of skills and experience to the Garden's Central Africa program. Her field work in several tropical African countries will enable her to take full advantage of the research opportunities there as she builds her program focusing on the cassava family, Euphorbiaceae.

## Garden Leads Reintroduction of Rare Plants in South Korea

Advancing the Garden's role as a global leader in conservation capacity building, Dr. Matthew Albrecht of the Garden's Center for Conservation and Sustainable Development recently led more than 100 students from South Korea, Uzbekistan, Turkmenistan, Tajikistan, Kyrgyzstan, and other southeast Asian countries in a workshop on the reintroduction of rare plants to their natural environments. Topics included preparing for reintroductions, genetic considerations, selecting appropriate recipient sites, and monitoring in accordance with new guidelines published in the Center for Plant Conservation's publication *CPC Best Plant Conservation Practices to Support Species*.





Top: Colorful paper pulp in process for Michael Powell's Garden-inspired paper paintings.  
Bottom: Fresh plant (left) and dried sample (right) materials from the Garden ready to be turned into Megan Singleton's handmade paper.

## Curator's Corner: Sachs Museum

### *Leafing through History: Plants that Make Paper*

June 14 through October 27

The Sachs Museum is hosting a specially curated exhibition on the plants that make paper. *Leafing through History: Plants that Make Paper* showcases plants used to make paper in cultures around the globe, papermaking technology, and artworks that feature papermaking elements, including origami sculptures. The exhibition will also feature St. Louis artists who are using plants from the Missouri Botanical Garden to create paper artworks that interpret the local and global reach of the Garden's botany and horticulture programs.

The Garden's collections are also making an off-site appearance with a special exhibition at the Lambert Airport Gallery (Terminal 1) until November 10. The display will include collected objects and artifacts from the William L. Brown Center, the Kemper Center for Home Gardening, the Sophia M. Sachs Butterfly House, and Shaw Nature Reserve. The exhibition will tell the stories of the different types of gardening, conservation, and ecological restoration work the Garden supports in our St. Louis community and around the world.

—Nezka Pfeifer, Museum Curator

## Keeping Conservation at the Center of the Garden's Work

Olga Martha Montiel  
Vice President, Center for Conservation and Sustainable Development



"With the creation of [CCSD], we moved from trying to understand plants to trying to conserve them."

—Olga Martha Montiel

Plant conservation is a key component of the Garden's current strategic plan, but large-scale conservation-specific work is relatively new to the Garden's portfolio, launching in 2001 with the founding of the Center for Conservation and Sustainable Development (CCSD). Olga Martha Montiel has been there from the beginning.

Montiel, who joined the Garden in the late 1980s working in the Garden's Latin America program and later co-edited the *Flora de Nicaragua*, was selected to establish a program to advance the understanding of conservation while also contributing to conservation in practice. In its first 10 years, the Center swiftly became a leader in national and international efforts in community-based conservation, capacity building, and biodiversity and conservation research and action. In 2013, the Center expanded its focus to include conservation genetics, global change, and restoration ecology.

## Get Involved!

Learn more about Montiel and other Garden researchers on the Garden's blog at [discoverandshare.org](http://discoverandshare.org).



what can you do?

# GARDEN PARTY LIGHTS

Party all summer long as the Garden becomes your after-hours destination for drinks, lights, music, and dynamic multimedia displays!

Thursday–Sunday evenings, July 5–October 19  
Learn more at [mobot.org/gardenpartylights](https://mobot.org/gardenpartylights)

Don't  
Miss It!

**Adults: \$16–\$20**

**Children: \$3–\$12**

Prices vary by date.

**Tickets on Sale  
for Members**

starting May 28

**Member Preview Night**

July 5 | 6 to 10 p.m.

**Family Nights**

**Sundays, July–August**

**\$3 tickets** for children  
ages 3–12 includes  
Doris I. Schnuck  
Children's Garden,  
open until 8 p.m.

**Brew Up a Good Time  
at the Biergarten**

Returning to Linnean  
Plaza this summer, our  
covered Biergarten  
is the perfect spot to  
sip seasonal beer from  
local breweries, snack  
on brats and more from  
the outdoor grill, or enjoy  
a round of games as the  
sun goes down.

The Biergarten opens at  
6 p.m. during Garden  
Party Lights.



Sponsorship by the  
Pohlmann Legacy

photo from Deposit Photos



## Help Reduce Horticultural Waste in Landfills

The Garden's Plastic Pot Recycling program is once again underway throughout the St. Louis region. Since 1998 the program has prevented more than one million pounds of plastic gardening trays, cell packs, and other horticultural waste from reaching landfills. The Garden has partnered with Central Paper Stock, a local leader in the recycling business for more than 70 years, to manage the 2019 program. To learn more and see a list of participating collection centers, visit [mobot.org/plasticpotrecycling](http://mobot.org/plasticpotrecycling).

## Wish Henry Shaw a Happy Birthday

This summer marks the 219th birthday of Garden founder Henry Shaw, and we invite you to consider making a special birthday gift to the Garden on (or before!) July 24. Donors like

you make our mission possible,

and we like to think Henry would be proud to know so many people care about the Garden he created. Make your gift at [mobot.org/happybirthdayhenry](http://mobot.org/happybirthdayhenry).

Plus, don't forget our annual birthday celebration on July 24, when all Garden visitors receive free admission to the Garden, Butterfly House, and Shaw Nature Reserve. For activities and more details, visit [mobot.org/events](http://mobot.org/events).

## Celebrate Your Child's Next Birthday at the Butterfly House

With three fun themes to choose from, the Butterfly House makes hosting your child's birthday party stress-free! Kids will enjoy staff-led activities, explore the Tropical Conservatory, decorate their own special butterfly cookie, and more.

Members receive a 10% discount on all party packages. Parties are available for children of all ages and are offered year-round. Call (314) 577-0888 ext. 3 or email [bhevents@mobot.org](mailto:bhevents@mobot.org) to book today.



## The Garden in 100 Objects on display through December 31

Experience the history of the Garden through a selection of artifacts, images, and documents personally selected by Garden President Dr. Peter Wyse Jackson. Your journey begins in the Spink Gallery on the second floor of the Ridgway Visitor Center. But some of the objects are too big to fit in the gallery. Using Storymaps, a mobile app that pinpoints the location of 20 additional "objects" along with their stories, come and be fascinated by the rich history and unique collections that contribute to the Garden's story.

When your visit is over, keep the story alive with a copy of the book *The Garden in 100 Objects*, available in the Garden Gate Shop. Learn more at [mobot.org/events](http://mobot.org/events).

## Cultivating COOKS YOUNG

August 17 | 9 a.m. to 3 p.m.

Discover the resources and information needed to foster the development of young cooks, gardeners, and healthy eaters. Several organizations and local chefs will be on hand to share information and give hands-on demonstrations on a wide range of topics from healthy home cooking to beekeeping to vermiculture, goat milking, cheese making, and much more. Learn more at [mobot.org/events](http://mobot.org/events).

## ensure a sustainable summer picnic

Whether you're headed to the Whitaker Music Festival or your neighborhood park, here are some simple ways to keep your summer picnic waste-free.

- Pack sustainably using a picnic basket or a reusable bag as well as reusable water bottles, containers, and utensils.
- Compost any leftover food waste.
- Stock up on local brands of beer, wine, or sodas and locally raised produce and meat.
- Try herbal-based mosquito repellents.
- Recycle containers in designated receptacles.

For more green ideas, check out the Green Living Festival on June 1 (see page 20) or visit [mobot.org/sustainability](http://mobot.org/sustainability).



# Help for the Home Gardener

Using what we've learned in our Garden  
to help you manage yours





Helping the public learn about plants has been at the heart of the Garden's mission since its inception. We love sharing the knowledge we've gained over 160 years of gardening. That dedication manifests in the design and implementation of large-scale conservation and restoration projects around the world, the Garden is equally committed to helping home gardeners get the most out of their own landscapes.

The largest nonprofit gardening information center of its kind, the William T. Kemper Center for Home Gardening is the Garden's hub for home gardening knowledge. The Center's 8,000-square-foot building and 23 surrounding demonstration gardens have been educating the public—and our own horticulturists—in traditional and experimental gardening techniques since 1991.

Inside the Kemper Center for Home Gardening building, visitors can consult with Garden staff and volunteers to identify mystery plants, address common problems, and learn which plants would work best in their homes. Fact sheets are available for visitors to take home, and a classroom provides ample space for learning everything from cultivation to culinary application of plants.

The Center's vibrant demonstration gardens are a highlight of any Garden visit, especially in the summer months when colorful displays burst from every corner of this unique showplace. These distinct, residential-scale gardens offer visitors a rotating glimpse of what's possible in their own home gardens, no matter the size, shape, or conditions.



The new Center for Home Gardening resource desk.

"Seeing something inspiring at the Garden can be a game-changer," says Julie Hess, Senior Horticulturist and Annual Display Designer for the North Gardens. "When a home gardener sees our plants in unusual settings and combinations, it can pique their interest to try something new at home."

Trying new configurations and combinations also helps grow the Garden's body of knowledge as horticulturists test and perfect various approaches. "In the trial gardens, we push plants to the limits," Hess explains. "We can show home gardeners what might work at home—or not. We also talk to visitors about their interests, their conditions at home, and what they would like to achieve."

**"We are constantly learning, trialing, and updating our practices to protect plants and display them to inspire the next generation of home gardeners."**

**— Andrew Wyatt, Sr. Vice President,  
Horticulture and Living Collections**





## New Digs for Plant Doctors

The helpful resources at the William T. Kemper Center for Home Gardening are now more accessible than ever thanks to a major overhaul completed this spring, including a new custom-built information desk that consolidates all of the center's gardening information resources in one place.

"We wanted to centralize everything," says Jennifer Smock, Center for Home Gardening Manager. "All of our education programs are now located in one spot, with Garden staff and volunteers working side-by-side and learning from each other as they assist the public." The renovations were made possible by a generous gift from the family of Alma Reitz, who volunteered at the Center for many years.

Smock hopes to see additional improvements take shape in the near future, including an interactive calendar for planning gardening tasks, an enhanced beehive display highlighting the importance of pollinators, and demonstration area for sharing quick tutorials on common gardening tasks.

## 'Round the Clock Gardening Resources

The Kemper Center for Home Gardening staff and volunteers offer a wealth of information to Garden visitors each day, and you can also find answers to many of your gardening questions without even leaving home. The searchable Plant Finder database gives gardeners instant access to detailed horticultural information for more 7,500 plants. The Gardening Help website ([gardeninghelp.org](http://gardeninghelp.org)) features monthly gardening tips, answers to frequently asked questions, visual guides and best practices for midwest gardening, and information on how to combat common pests and problems—all available 24 hours a day.

Staff and volunteers answer gardening questions and make plant recommendations 9 a.m. to 5 p.m. daily.

### Take a Class

Looking to learn a new gardening approach? Enjoy group activities and getting out of the house? Gardening and landscaping classes at the Garden are designed to help everyone from novice home gardeners to aspiring horticulturists accomplish their gardening goals. Members always receive discounts on classes. Learn more and register at [mobot.org/classes](http://mobot.org/classes).

### Need more help?

- Email your plant questions to [plantinformation@mobot.org](mailto:plantinformation@mobot.org).
- Call the Plant Doctors Monday through Friday from 9 a.m. to noon at (314) 577-5143.

### Consider Making a Gift!

Support our living collections and inspire home gardeners; make a special gift today! [mobot.org/donate19](http://mobot.org/donate19).

photos by Tom Incrocci and Mary Lou Olson





## Honoring Two Great Friends of Home Gardeners

The Missouri Botanical Garden honors two longtime friends who recently passed away, Alma Reitz and Liz Ruwitch. Alma and Liz left a permanent legacy for home gardeners.

Alma Reitz was both a “people person” and a great gardener—two traits that made her perfect for a volunteer role at the Garden. After retiring from decades of success as a human resources manager at Sears, Roebuck and Co., Alma became the first woman volunteer on the Horticulture Answer Service in 1975. She would patiently help the callers, regardless of their level of plant knowledge, and often received follow-up calls from grateful gardeners. She also provided onsite assistance at the Plant Doctor desk in the Kemper Center for Home Gardening for many years. Alma retired from the answer service in 2011 and answered thousands of questions during her tenure. The Center's new visitor desk is made possible with her support and will be named in her memory.

Liz Ruwitch and her husband Joe joined the Garden in the 1960s. They supported organizations across our community, and Joe served as a Garden Trustee. The couple also celebrated milestones here, including their fiftieth wedding anniversary and grandson's wedding. Liz loved peonies, and Joe made a gift to create the peony beds in the Japanese Garden in her honor. Joe became personally interested in gardening after he retired, working from a chair with a helper when he could no longer handle all of the tasks himself. Liz named the Joseph F. Ruwitch Garden for All in his memory, providing a space to showcase gardening options for people requiring walking aids and wheelchairs.

Both Alma and Liz were valuable members of our Garden community who have made a lasting impact on home gardeners and visitors to the William T. Kemper Center for Home Gardening. They will be missed.







# *this summer...* **MEMBERS GET MORE!**

This summer, enjoy the Missouri Botanical Garden as only a member can—with special events, ticket discounts, and fantastic opportunities for learning and fun!







## MEMBER TUESDAY NIGHTS

Every Tuesday evening in June, Members enjoy exclusive access to the Garden from 5 to 8 p.m. Show your membership card for entry. Each week offers a different theme, tour, and family activities. Please note: Sassafras café will not be open during these events.

### Week One: June 4

#### *Family Fun at the annual Family Picnic*

Bring a blanket or chairs, pack your own picnic or purchase one from us, and enjoy live music, art activities, a children's pot-a-plant station, face painting, free popcorn, and more!

This event is presented by the Missouri Botanical Garden Members' Board. Reservations are requested, but walk-ins are welcome. Please enter through the Linnean Gate (east of the Ridgway Visitor Center).

### Week Two: June 11

#### *Stop and Smell the Roses*

Roses were special to founder Henry Shaw and remain today a beloved part of our living collection. Come explore our rose gardens with our horticulture team, visit with the Rose Society, and attend a special evening installment of the Member Speaker Series to learn about rose selection and care from expert Diane Brueckman of Rosey Acres.

- 6 p.m.—Member Speaker Series: Roses  
Shoenberg Theater  
(registration required)
- 6:30 p.m.—Docent-led Tour: Using Your Senses  
(meet in Monsanto Hall)

### Week Three: June 18

#### *Art in the Garden*

Discover art all around the Garden! Explore the brand new exhibit *Leafing Through History: Plants that Make Paper* with curator Nezka Pfiefer in the Stephen and Peter Sachs Museum. Enjoy art-making activities from Artscope, live music, and demonstrations from the St. Louis Water Color Society.

- 6:30 p.m.—  
Docent-led Tour:  
Sculpture (meet in  
Monsanto Hall)

### Week Four: June 25

#### *Water, Water Everywhere*

Our final Member Tuesday of the season focuses on water, water gardening, and the Garden's impressive collection of aquatic plants. Learn about our collection live from the lily pools with Derek Lyle, Sr. Manager, Nursery. Plus, meet experts from the St. Louis Water Garden Society, learn about rainscaping from the EarthWays Center, and splash around the Children's Garden to beat the summer heat.

- 5:30 and 7 p.m.—  
Water Talk Presentation  
(Central Axis)
- 6:30 p.m.—Docent-led  
Tour: Fountains, Pools,  
and Ponds (meet in  
Monsanto Hall)





## MEMBER PERKS FOR GARDEN PARTY LIGHTS

Every Thursday through Sunday, July 5–October 19, party with us and enjoy lights, music, drinks, and dynamic multimedia entertainment. We've maximized some of the most popular elements of our past events and exhibits to create a whole new way to experience the garden.

As a member, you can enjoy an exclusive Member Preview Night on Friday, July 5.

Festival members receive a total of six single-use adult or child tickets to use on the night(s) of your choice. Advance tickets recommended. Visit [mobot.org/festivalmembers](http://mobot.org/festivalmembers) to reserve your Festival tickets.

For all other ticket purchases and information, visit [mobot.org/gardenpartylights](http://mobot.org/gardenpartylights).



## SCIENCE:30

Members of the Garden's Giving Societies are invited to mix and mingle with our leading plant scientists and explorers at this summer lecture series. Each Science:30 offers a behind-the-scenes look at the Garden's science and conservation work around the world.

### Seed Banking Missouri's Flora and Taxonomic Work in the Southeast

*Dr. Aaron Floden, Assistant Scientist*  
Tuesday, May 28

### Bringing Ethnobotany Home: Bosnian Cuisine in St. Louis

*Ashley Glenn, Research Specialist,*  
*William L. Brown Center*  
Tuesday, June 25

### Back from the Brink: Saving Tanzanian Tree Species from Extinction

*Roy Gereau, Tanzania Program Director,*  
*Africa and Madagascar Department*  
Tuesday, July 30

### In the Footsteps of Humboldt: Botanical Journeys in Ecuador

*Dr. Carmen Ulloa, Curator, Science and Conservation*  
Tuesday, September 10

Reservations are required. Call (314) 577-5173 for full event details or for more information about the Garden's Giving Societies. Exclusively for members at the Contributor level and above.



## EARLY MORNING ACCESS FOR MEMBERS

As a member, enjoy the coolest part of those hot summer days during early morning hours at the Garden and Shaw Nature Reserve. At the Garden, members and St. Louis City/County residents enjoy free access to Garden grounds from 7 to 9 a.m. on Wednesdays and Saturdays all year long.

As a new benefit for members, Shaw Nature Reserve is now open from 6 to 8 a.m. daily for members to enjoy walking, jogging, birding, nature study, and photography. Pre-registration and a special access code are required for entry through the Nature Reserve's automated gate. Visit [shawnature.org/2019EarlyMorning](http://shawnature.org/2019EarlyMorning) or call (314) 577-5118 to sign up.

## JAPANESE FESTIVAL

Beat the end-of-summer blues at the Garden's annual Japanese Festival over Labor Day weekend, August 31–September 2. One of the largest in the nation, our Japanese Festival offers live music and dance, art, Japanese Garden tours, fashion shows, and a tasty food court.

Members at the Individual through Friends and Family levels receive half-off adult entry and free admission for children 12 and under. Festival members receive FREE entry for up to six adults plus children. Please note: Free tickets for Festival members cannot be reserved in advance.

# RECIPROCAL ADMISSIONS PROGRAM



As you pack your bags for summer road trips and long weekends, don't forget your Missouri Botanical Garden membership card—it's your access pass to more than 320 gardens throughout North America!

While each garden sets their own benefits, reciprocity often includes free admission, discounts on retail and parking, and free audio guides. For a full list of participating gardens, view the directory at [ahsgardening.org/gardening-programs](http://ahsgardening.org/gardening-programs).

### #MBGMember Photo Contest

On your travels this summer, take a photo of you and your family at a participating reciprocal garden, and post the photo publicly on Instagram with our members-only hashtag #MBGMember and the name of the garden you visited. Photos can also be emailed to [membership@mobot.org](mailto:membership@mobot.org).

You will then be entered to win fantastic prizes including a membership extension, \$75 to Maypop Coffee and Garden Shop, and free tickets to Garden Glow. Photos must be posted by August 31, 2019.

### Popular Reciprocal Partners

Atlanta Botanical Garden  
Brooklyn Botanic Garden  
Chicago Botanic Garden  
Denver Botanic Gardens  
Desert Botanical Garden  
Fairchild Tropical Botanic Garden  
Lewis Ginter Botanical Garden  
The Morton Arboretum  
New York Botanical Garden  
San Francisco Botanical Garden  
Plus 300 more!



# just for members



photos by Kat Niehaus, Bethany Ottens, and Sundos Schneider

## Member Tuesday Nights

Tuesdays in June\* | 5 to 8 p.m.

Members enjoy exclusive evening access to the Garden every Tuesday in June. New this year, each week offers an exciting theme! Connect with fellow members, play in the Children's Garden, enjoy a twilight stroll, take a tour with Garden docents, and discover new surprises each week! See page 15 for more details.

*\*Sassafras will NOT be open during these events; Member Tuesday Nights will occur only in June.*

## Member Family Picnic

June 4 | 5 to 8 p.m.

Kick off Member Tuesday Nights with extra fun at the annual Member Family Picnic hosted by the Members' Board! Pack a waste-free picnic or purchase one from us, and bring your blankets and chairs. Enjoy live music, family activities in the Children's Garden, face painting, and more. Reservations requested. Bring your membership card for check in.

## Member Speaker Series: Roses

June 11 | 6 to 7 p.m. | Shoenberg Theater

Don't miss this special evening installment of the Speaker Series during Member Tuesday Nights! Join Diane Brueckman, owner of Rosey Acres, to learn tips for selecting, planting, and caring for roses. After the lecture, join Garden horticulturists to explore the Garden's roses and enjoy botanical cocktails from a cash bar. Limited seating. Registration required.





Information and registration at (314) 577-5118 or [mobot.org/memberevents](http://mobot.org/memberevents) unless otherwise noted.

## Members Get More!

From discounts to event previews to exclusive access—your membership gives you more of what you love about the Garden, Butterfly House, and Shaw Nature Reserve.

## Garden Party Lights Member Preview

July 5 | 6 to 10 p.m.

Be among the first to experience this summer's Garden Party Lights at this exclusive opening night just for members! The Garden opens at 6 p.m., with live music by St. Louis Steady Grinders and food and drink available for purchase. Light displays begin 20 minutes after sunset. Advance tickets recommended. See page 8 for more details.

## Member Speaker Series: Land Stewardship at SNR

July 16 | 11 a.m. to noon

Shoenberg Theater

Join Dr. Quinn Long, Director of Shaw Nature Reserve, and Mike Saxton, Ecological Restoration Supervisor, to discuss the history of the Nature Reserve and the evolution of objectives for land management, with an emphasis on contemporary strategies for controlling invasive species and using prescribed fire to promote native biodiversity. Limited seating. Registration required.

## Member Speaker Series: Smarty Plants for Fall

August 20 | 11 a.m. to noon

Shoenberg Theater

Connecting with plants is a proven way to increase your quality of life, especially when you choose the right plants for your garden goals, your habitat, and the local ecology. Join Jennifer Schamber, General Manager of Greenscape Gardens, to learn about a range of fun and functional plants ideal for fall planting. Limited seating. Registration required.



# special events



## Wildflower Concert Series

Saturdays in June | 6 to 8 p.m.

Shaw Nature Reserve

Enjoy local bands while surrounded by the region's largest and most diverse native plant garden at the Wildflower Concert Series every Saturday evening in June at Shaw Nature Reserve. Learn more at [shawnature.org](http://shawnature.org).

## Green Living Festival

*Sustainable solutions for you!*

June 1 | 9 a.m. to 4 p.m.

*Presented by Ameren Missouri*

[mobot.org/greenlivingfest](http://mobot.org/greenlivingfest)

Do you have an interest in a sustainable lifestyle? Help your family, friends, and coworkers live green! Join us and explore the links between sustainability where you live, learn, work, and play, and an environment healthy for plant conservation. Enjoy presentations, product and service exhibitions, and children's activities throughout the day. Included with admission.



Wednesdays, May 29–July 31

*Funded by the Whitaker Foundation*

Concerts at 7 p.m. | Free admission after 5 p.m. | [mobot.org/whitaker](http://mobot.org/whitaker)

May 29 | Old Souls Revival

June 5 | Terence Blanchard  
with the E-Collective  
*Presented in Partnership with  
Opera Theatre of St. Louis*

June 12 | Tonina Saputo

June 19 | River Kittens

June 26 | The Gene Dobbs Bradford  
Blues Experience

July 3 | Mardra and Reggie Thomas

July 10 | Boomtown United

July 17 | Annie and the Fur Trappers

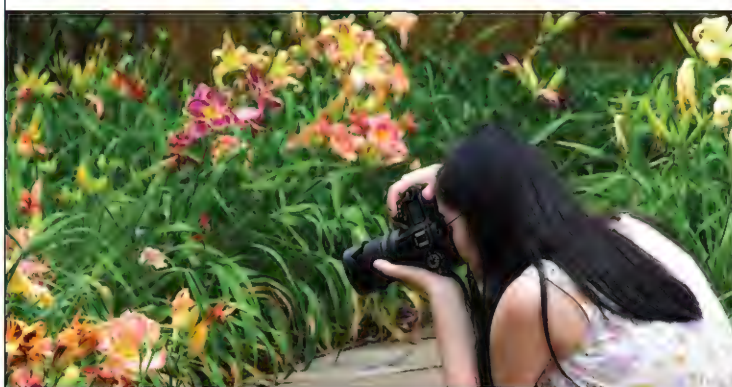
July 24 | Dave Grelle's Playadors

July 31 | Starwolf

## SUMMER BUGGIN'

June–August | Butterfly House

We are “buggin’ out” at the Butterfly House this summer! Join us as we host a variety of exhibits and events that celebrate these amazing creatures both during the day and in the evening. Become a “nature sleuth,” experience live animal encounters, see daily butterfly releases, and learn what makes fireflies glow. Visit [butterflyhouse.org](http://butterflyhouse.org) to learn more.



## Illinois Appreciation Week

June 9–15 | 9 a.m. to 5 p.m.

Illinois residents receive \$6 Garden admission, a 10% discount in the shops, and a 20% discount off new or renewal memberships purchased on-site this week (with a valid Illinois ID).

## Butterfly House Birthday Bash

July 20–21 |

10 a.m. to 4 p.m.

The Butterfly House is sharing their birthday celebration with the *Very Hungry Caterpillar* as this iconic storybook character turns 50! The day will be filled with celebration including a Story Walk, crafts, live caterpillar encounters, and of course “meet and greets” with the *Very Hungry Caterpillar* himself! Free for members.

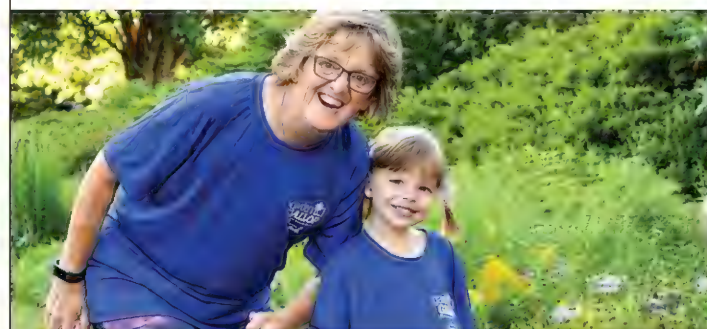


## Garden Gallop

Presented by Graybar

August 25 | 7 to 9 a.m.

Join the Young Friends of the Garden for a fun run/walk Garden this August. For tickets and information, visit [mobot.org/run](http://mobot.org/run). Advance registration is required.



photos by Ning He, Demi Striglos, and Sundos Schneider



From gardening tools and unique toys to vintage items and local products, the Garden shops have just what you're looking for.

Look for these icons to know where each event or sale is taking place.



## Garden Gate Shop

4344 Shaw Blvd.  
St. Louis, MO 63110  
Monday–Sunday  
9 a.m. to 5:30 p.m.  
(314) 577-5137



## Butterfly House Gift Shop

15193 Olive Blvd.  
Chesterfield, MO 63017  
Tuesday–Sunday  
10 a.m. to 4 p.m.  
(314) 577-9477



## Little Shop Around the Corner

4474 Castleman Ave.  
St. Louis, MO 63110  
Tuesday–Saturday  
10 a.m. to 4 p.m.  
Sunday, noon to 4 p.m.  
(314) 577-0891

## Make Your Donations Count at the Little Shop

Opened on Valentine's Day, February 14, 2004, by Garden Emeritus Trustee Evelyn Newman, the Little Shop Around the Corner sells donated vintage and antique furniture, artwork, jewelry, silver, china, and other furnishings. All proceeds support the work of the Garden. Visit [littleshop.org](http://littleshop.org) to learn how you can donate your cherished items or estate to the Little Shop.

## New Frequent Shopper Program at Little Shop Around the Corner

Reward yourself for supporting the Garden with a new incentive program at the Little Shop! Shoppers earn 1 point for every \$10 spent and are redeemable on future purchases after 10 points are reached. Member discount applies. Learn more at [littleshop.org](http://littleshop.org).

## First Fridays are Member Double Discount Days

First Friday of each month | 🌱 🍯

All Garden members receive 20% off purchases or double punch card punches on the first Friday of each month.

## Member Double Punch Days

June 11, July 16, August 20 | 🌱 🍯

All Garden members receive double card punches.

## Little Shop Smalls Sale

June 25–30 | 🪑

Shop our “small” items—glassware, crystal, jewelry, figurines, dishes—at a 40% discount. No additional discounts apply. See shop for details.

## Little Shop Art & Chair Sale

July 23–28 | 🪑

Enjoy 50% off all art and chair items in the shop. No additional discounts apply. See shop for details.

## Garden Gate Shop Voted “Favorite Museum Gift Shop”

The Garden Gate Shop has been named “Favorite Museum Gift Shop” by the readers of the *St. Louis Post-Dispatch* in the Go! St. Louis 2019 Readers Poll.

Did You Know

## Enjoy Summer Dining at the Garden

During your next Garden visit, enjoy one—or a few!—of the delicious new menu items at Sassafras. A tempting variety of new sandwiches, salads, and flatbreads join perennial favorites like the chicken salad to satisfy everyone's taste! Which one will become your new favorite?

Café Flora, located in Spink Pavilion, is now open for seasonal Sunday brunch. Enjoy lovely Garden vistas while indulging in favorites like smoked salmon, Belgian waffles, coffee, and mimosas, just to name a few! Next time you want to soak in a lazy summertime vibe, grab a friend or bring your family to the Garden for lunch or brunch. Menus can be found on our website at [mobot.org/shop](http://mobot.org/shop).

## » staff picks



## Pollinator Products

We're buzzing over these bee-related goods. Visit the Garden Gate Shop and the Butterfly House Gift Shop for a selection of pollinator products, from local honey to reusable food wraps and more. We've got your summertime covered! Products pictured range from \$9.99 to \$139.99.



# commemorative gifts

January–March 2019.

A commemorative gift is a wonderful way to honor family and friends. Gifts of \$100 or more are listed in the *Bulletin*. For more information about giving opportunities, call (314) 577-5118 or make a commemorative gift at [mobot.org/tributes](http://mobot.org/tributes).

## In Honor of

**Mr. and Mrs. Henry W. Dubinsky**  
Ms. Susan D. Terris

**Dr. and Mrs. Henry G. Ollinger**  
Mrs. Rebecca O. Styron

**Amy Weinstock**  
Lori Weinstock and  
Eric Millner

## In Memory of

**Donald H. Altvater**  
Steve Byrne  
Cloudnexion  
Sally Greenwood  
John Key

**Carolyn and George Boucher**  
Mary H. Winsby

**William H. T. Bush**  
Mr. and Mrs. Bert Condie III  
Ms. Missey Condie

**Carl E. Darigo**  
Susan Darigo

**Anita Stephanie de Agüero**  
John and Anita O'Connell

**Audrey Louise Deppe**  
Arthur Roger Deppe  
Fairy Meek  
RSG Landscaping &  
Lawn Care  
Marcia Songer  
Troop 72 Scouts and Families

**William E. Dunworth**  
Mr. and Mrs. William C.  
Dunworth  
Mr. and Mrs. Mike Kolb  
and Family  
Mr. and Mrs. Todd Link  
Mr. and Mrs. Allan J. Link  
Lauryl Mack  
Bonnie M. Sunderman

**Natalie Feste**  
Kerrie Heckethorn  
Holly Hesemann

**Rev. Jack Fleming**  
Pat and Sue Fleming

**Ann Elise Foy**  
Mary and Michael Arendes  
Mr. and Mrs. William R. Piper

**Mrs. Regina R. Junker**  
2-305 FA BN

**Dr. Max R. Kasselt**  
Elizabeth Fritschle  
Parker, Mary Ann, and  
Robert Fritschle  
David and Mary Parker  
Satterfield

**Susan Taylor Lane**  
Quintus L. Drennan, Jr.

**Nina T. Lawrence**  
Stephanie and Bryan  
Bechtold  
Mark, Tim, and Christine  
Bramstedt  
Iva M. Lawrence  
Adam Madison  
Cheryll Schwarz

**Mary Anne Lucas**  
Tim and Beth Bates  
Sandy Bauman  
Ed Bellamy  
Jen and Ryan Blum  
Joan Diester  
Tim and Missy Lucas  
Kathy and Rich Repole

**John W. McCormack**  
Anonymous  
Bobby Griffin  
Mrs. Ann M. Kaiser  
Grant Reeg  
Peter and Susan Rogers  
Stephanie Smith  
Mary Starmann-Harrison

**Margaret P. Meert**  
The Westrock Family

**Sharon Katherine Montgomery**  
Stacey Reinhardt

**Albert Ross Mullen**  
Roberta L. Rott  
Anthony Tagliaferro  
Your Friends at Sandia  
National Laboratories

**Robert and Elizabeth Nellums**  
Robert O. Nellums and  
Sarah Kotchian

**Laura Lee Oppland**  
Patricia and Lance Jensen

**Kathryn M. Oughton**  
Judy Creason and  
Jerry Hyde  
Krista Knuffman  
Pam Patterson  
Ruth W. Rangel  
Andrew Roffmann  
Diana Simonpietri  
Kelly Topp  
Christie Tietjen  
Emily Williams

**Richard A. Pfautch, Jr.**  
Joyce and Peter Seale

**Zonamae Pinski**  
Mariel's Tuesday Volunteers

**Ray Sheehan**  
Rodger Kester

**John J. Shillington**  
John and Andrea Atkinson  
Roland and Luanne  
Bergstrom  
Jenny and Tim Ewing  
John and Annette Gleason  
Elizabeth and Katherine  
Guffey  
Renee and Mark Lawson  
Julie and Luke Leidenfrost  
Paul and Amy Lottes  
John and Anita O'Connell  
The Summers Family  
JoAnn and Marc Vorih  
Mrs. Joanna H. Werner

**Martha I. Skinker**  
Mr. and Mrs. Jack Smith

**Bill Snyder**  
Dr. and Mrs. David Klein  
Mrs. Mary Quinn Snyder

**Dr. John A. Stephens**  
Mariann and Frank Baker  
Helen Carpenter  
Will Carpenter  
Will A. Carpenter  
Zonnia Carpenter  
Celeste Carpenter-Cox  
Rick Cox  
Mr. and Mrs. Derick L.  
Driemeyer  
Marifrances T. Hiltz  
Ann McArthur  
Dr. Bruce E. Phillips  
Wayne Ratts  
Verle Schrodt  
Catherine F. Stephens and  
Steven A. Failor  
June Stephens

**Grace M. Sturm**  
Joan C. Switzer

**Lynn R. Toberman**  
Jim and Rosalie Cooper

**Dorothy Van Buren**  
Ms. Medora West

**Mary Kay Vogel**  
Mr. and Mrs. William Mayer

**Robert W. Wilson**  
Mrs. Bonnie J. Morse

## MEMBERS ENTRY COURT

January–March 2019.  
For more information,  
call (314) 577-5118 or visit  
[mobot.org/donate](http://mobot.org/donate).

## Engraved Bricks

**Paul Aitken**  
Ramona Aitken

**The Clarkson Family**  
Mr. and Mrs. Brass M.  
Clarkson

**Joe and Bonnie Devoti**  
Bart and Pat Devoti

**HC and Blanche Downs**  
Craig Johnson

**Mary Ann Elbert**  
Amy Jenkin's friends and  
colleagues, New American  
Funding, Sinak Branch

**Carol Emory**  
Friends and Family of  
Carol Emory

**Carolyn Foeller**  
Charles and Deborah  
Braband  
Linda and Fred Kaveny

**Anne Marie Hakenewerth**  
Mr. and Mrs. Francis W.  
Kuensting

**Amanda Helfers**  
Amanda Tine

**Dillon Helfers**  
Amanda Tine

**Maureen Helfers**  
Amanda Tine

**Lee Houser and  
Lucille Steuer**  
Mr. and Mrs. Charles R. Steuer

**Dana Kathryn Jennrich**  
Brian Jennrich

**John W. McCormack**  
Explorer Post 824

**Amy and Gordon  
McPherson**  
Missouri Botanical Garden

**Michael J. Moran**  
Kathleen Moran

**Bob and Alice Wendel**  
Tom Wendel

**Tom Wendel**  
Tom Wendel

## BUTTERFLY HOUSE

January–March 2019.  
For more information,  
call (314) 577-5118 or visit  
[butterflyhouse.org/donate](http://butterflyhouse.org/donate).

## Engraved Pavers

**Virginia Gayle Jennison**

**Carol Emory**  
Friends and Family of  
Carol Emory

**Kathy Goldner**  
Marvin Goldner

**Ann Marie Kodelya**  
Beth Crow

**Chet Neal**  
Laura Valentine

**Kaitlin Clare Wagener**  
Constance Cliffe

**The Zelidon-Naphakorn  
Family**  
Ms. June Naphakorn and  
Mr. Dan Zelidon



photo by Tom Incrocci



# commemorative gifts



Janelle and Jim Criscione

**“For me, the Heritage Society is about taking care of the Garden that has given me so much. It gives us all so much joy; I wouldn’t think of not taking care of it!”**

## Heritage Society Profile: Janelle and Jim Criscione

Like most gardens, the Missouri Botanical Garden is a welcoming space. Visitors of all ages can find something of interest to enjoy. At least, it’s always seemed that way to Janelle Criscione. She started visiting the Garden when she first moved to St. Louis in 1965, bringing her children to explore the landscape and discussing everything from the shapes of plants to the design of Henry Shaw’s mausoleum. And she always encouraged the kids to bring their friends.

Her husband Jim has been visiting even longer. “Jim lived in a rooming house on Flora when he was a young man in medical school. It was so cold there, he often took his books to the Garden and studied in the desert house!”

Over the years, both Jim and Janelle have watched the Garden evolve—watching the creation of the Japanese Garden, Ridgway Visitor Center, and other landscapes firsthand.

“To me, it’s like a healthy tree,” says Janelle. “It grows and spreads and offers so much to the community. Underneath, it’s supported by strong roots. That’s our research program—the roots of our mission.”

Those roots, the Garden’s global mission of plant discovery and conservation, also continue to grow. For Janelle, that shows in the size of our Herbarium and efforts to digitize our data. “It’s good to have so much knowledge online,” she says. “Botanical gardens have a role in the health of our environment, and that need continues to grow. Our own Shaw Nature Reserve began due to the Garden’s understanding of the impacts of coal pollution on the plant collections.”

Janelle continues to connect with the Garden’s work and is serving her second term on the Members’ Board. “It helps me stay engaged with the direction of [Garden President] Dr. Peter Wyse Jackson.”

Similarly, Janelle is a proud member of the Heritage Society. “It’s not about an amount of money,” she says. “For me, the Heritage Society is about taking care of the Garden that has given me so much. It gives us all so much joy; I wouldn’t think of not taking care of it!”

Janelle even had a special sign made declaring herself a “proud member of the Garden Heritage Society” to display at her home when she participated in the Garden Tour and the National Hosta Tour.

Now, Janelle brings her great-grandchildren to the Garden to explore. They visit the hosta garden, where Jim can look out and see his old home on Flora. They stroll the Japanese Garden and pose with *Bather (Grande Baigneuse) No. IV* near the Linnean House.

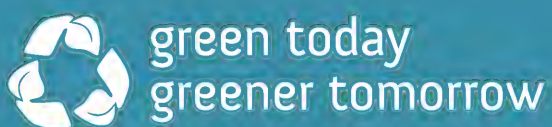
“There’s always something to see, always something new, something changing,” Janelle says. “I’ve always enjoyed being a part of that.”

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## Heritage Society

To learn more about the Heritage Society, contact Brenda Zanola at (314) 577-0879 or visit [mobot.org/plannedgiving](http://mobot.org/plannedgiving).





The Missouri Botanical Garden strives to make the most sustainable choices possible to benefit people, plants, and the planet. That's why we offer an interactive online version of the *Bulletin* as well as a downloadable PDF. Sign up by sending an email to [membership@mobot.org](mailto:membership@mobot.org). Let us know if you'd like to forego your paper subscription.

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- Your address is incorrect
- You receive more than one copy
- You no longer wish to receive the *Bulletin*



MISSOURI BOTANICAL GARDEN  
4344 Shaw Blvd. • St. Louis, MO 63110

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## JAPANESE FESTIVAL

Sponsorship by  
Nidec Motor Corporation  
and Renewal by Andersen

August 31–September 2  
[mobot.org/japanesefestival](http://mobot.org/japanesefestival)



# SUMMER BUGGIN'

at the Butterfly House

June–August | Tuesday–Sunday  
10 a.m. to 4 p.m.



## fireflies *after dark*

June 28 | 7 to 9:30 p.m.  
21 and older

## BIRTHDAY BASH

Featuring the Very Hungry Caterpillar  
July 20–21



[butterflyhouse.org](http://butterflyhouse.org)



MISSOURI BOTANICAL GARDEN

# calendar

[mobot.org/events](http://mobot.org/events)

june | july | august



## Member Tuesday Nights

Tuesdays in June  
5 to 8 p.m.

June 4 | Member Family Picnic  
June 11 | Stop and Smell the Roses  
June 18 | Art in the Garden  
June 25 | Water, Water Everywhere



[mobot.org/membertuesdays](http://mobot.org/membertuesdays)

Garden Party Lights  
Thursdays–Sundays  
July 5–October 19

## Wildflower Concert Series at Shaw Nature Reserve

Saturdays in June  
6 to 8 p.m.  
Food & drinks available  
at 5 p.m.  
Free for members

Enjoy local bands on the lawn of the historic Bascom House, surrounded by the beauty of the region's largest and most diverse native plant garden. Visitors are invited to bring their chairs and picnic blankets and can purchase food, wine, beer, and spirits from local vendors.

### Schedule

June 1 | PayDirt  
June 8 | Tommy Halloran's Guerilla Swing  
June 15 | River Kittens  
June 22 | Downstream  
June 29 | The Gaslight Squares

[shawnature.org/events](http://shawnature.org/events)

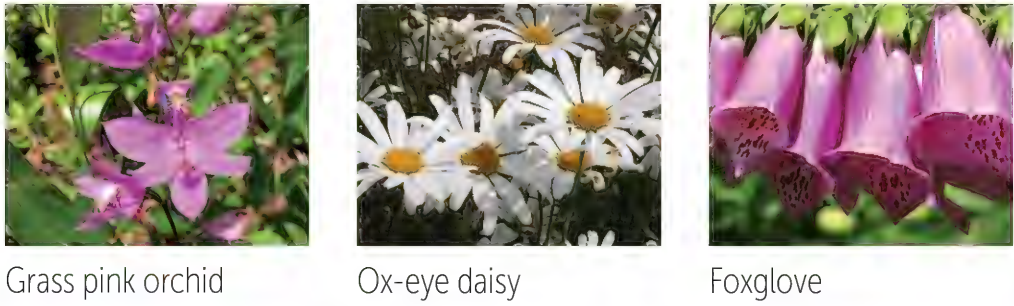




# june 2019

average temperature: low 67° | high 86°  
average precipitation: 3.76 in.

### What’s in bloom?

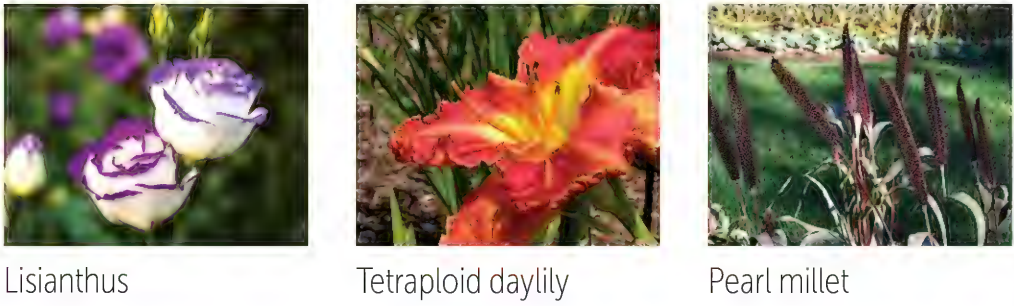


|           |                                                                                                        |
|-----------|--------------------------------------------------------------------------------------------------------|
| 6/1       | <b>Green Living Festival</b>   <i>Presented by Ameren</i><br>9 a.m.–4 p.m.   KC                        |
| 6/1       | <b>National Prairie Day</b>   8 a.m.–8 p.m.   Free   SNR                                               |
| 6/1       | <b>Wildflower Concert Series</b>   PayDirt<br>6–8 p.m.   Free for members   SNR                        |
| 6/4       | <b>Member Family Picnic</b>   5–8 p.m.                                                                 |
| 6/5       | <b>Whitaker Music Festival</b>   Terence Blanchard with the E-Collective   7 p.m.   CA                 |
| 6/8       | <b>Wildflower Concert Series</b>   Tommy Halloran’s Guerilla Swing   6–8 p.m.   Free for members   SNR |
| 6/9–6/15  | <b>Illinois Appreciation Week</b>   9 a.m.–5 p.m.                                                      |
| 6/9       | <b>World Swallowtail Day</b>   10 a.m.–4 p.m.   Free for members   BH                                  |
| 6/11      | <b>Member Tuesday Nights: Stop and Smell the Roses</b>   5–8 p.m.                                      |
| 6/11      | <b>Member Speaker Series: Roses</b>   6-7 p.m.     ST                                                  |
| 6/12      | <b>Whitaker Music Festival</b>   Tonina Saputo   7 p.m.   CA                                           |
| 6/15      | <b>Wildflower Concert Series</b>   River Kittens.   6–8 p.m.   Free for members   SNR                  |
| 6/18      | <b>Member Tuesday Nights: Art in the Garden</b>   5–8 p.m.                                             |
| 6/19      | <b>Whitaker Music Festival</b>   River Kittens   7 p.m.   CA                                           |
| 6/21      | <b>Firefly Festival</b>   8–9:30 p.m.   \$ BH                                                          |
| 6/22      | <b>Wildflower Concert Series</b>   Downstream<br>6–8 p.m.   Free for members   SNR                     |
| 6/25      | <b>Member Tuesday Nights: Water, Water Everywhere</b>   5–8 p.m.                                       |
| 6/25–6/30 | <b>Little Shop “Smalls” Sale</b>   10 a.m.–4 p.m., Tuesday–Friday and noon–4 p.m., Sunday   LS         |
| 6/26      | <b>Whitaker Music Festival</b>   The Gene Dobbs Bradford Blues Experience   7 p.m.   CA                |
| 6/28      | <b>Fireflies After Dark</b>   7–9:30 p.m.   \$ BH                                                      |
| 6/29      | <b>Wildflower Concert Series</b>   The Gaslight Squares   6–8 p.m.   Free for members   SNR            |

# july 2019

average temperature: low 71° | high 90°  
average precipitation: 3.9 in.

### What’s in bloom?



|           |                                                                                             |
|-----------|---------------------------------------------------------------------------------------------|
| 7/3       | <b>Whitaker Music Festival</b>   Mardra and Reggie Thomas<br>7 p.m.   CA                    |
| 7/5       | <b>Member Preview: Garden Party Lights</b><br>6–10 p.m.     \$                              |
| 7/6–7/7   | <b>Garden Party Lights</b>   6–10 p.m.   \$                                                 |
| 7/10      | <b>Whitaker Music Festival</b>   Boomtown United<br>7 p.m.   CA                             |
| 7/11–7/14 | <b>Garden Party Lights</b>   6–10 p.m.   \$                                                 |
| 7/12      | <b>Frog Festival</b>   7:30–9 p.m.   \$ BH                                                  |
| 7/16      | <b>Member Speaker Series: Land Stewardship at Shaw Nature Reserve</b>   11 a.m.–noon     ST |
| 7/17      | <b>Whitaker Music Festival</b>   Annie and the Fur Trappers<br>7 p.m.   CA                  |
| 7/18–7/21 | <b>Garden Party Lights</b>   6–10 p.m.   \$                                                 |
| 7/20–21   | <b>Butterfly House Birthday Bash</b>   10 a.m.–4 p.m.   BH                                  |
| 7/20–7/21 | <b>Bookworm Brunch with the Very Hungry Caterpillar</b>   10–11:30 a.m.    \$ BH            |
| 7/23–7/28 | <b>Little Shop Art Sale</b>   10 a.m.–4 p.m., Tuesday–Friday and noon–4 p.m., Sunday   LS   |
| 7/24      | <b>Henry Shaw’s Birthday</b>   9 a.m.–5 p.m.   Free admission at MBG, BH, SNR               |
| 7/24      | <b>Whitaker Music Festival</b>   Dave Grelle’s Playadors   7 p.m.   CA                      |
| 7/25–7/28 | <b>Garden Party Lights</b>   6–10 p.m.   \$                                                 |
| 7/27–7/28 | <b>Henry Shaw Cactus and Succulent Society Show and Sale</b>   9 a.m.–5 p.m.   RVC          |
| 7/31      | <b>Whitaker Music Festival</b>   Starwolf   7 p.m.   CA                                     |

# august 2019

average temperature: low 69° | high 88°  
average precipitation: 2.98 in.

### What’s in bloom?



|           |                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------|
| 8/1–8/4   | <b>Garden Party Lights</b>   6–10 p.m.   \$                                                   |
| 8/2       | <b>Flight Festival</b>   7:30–9 p.m.   \$ BH                                                  |
| 8/3       | <b>Greater St. Louis Iris Society Sale</b><br>9 a.m.–5 p.m.   RVC                             |
| 8/8–8/11  | <b>Garden Party Lights</b>   6–10 p.m.   \$                                                   |
| 8/11      | <b>Bee Jubilee</b>   10 a.m.–4 p.m.   Free for members   BH                                   |
| 8/15–8/18 | <b>Garden Party Lights</b>   6–10 p.m.   \$                                                   |
| 8/17      | <b>Missouri Botanical Garden Daylily Association Sale</b><br>9 a.m.–5 p.m.   RVC              |
| 8/20      | <b>Member Speaker Series: Smarty Plants for Fall</b><br>11 a.m.–noon     ST                   |
| 8/22–8/24 | <b>Garden Party Lights</b>   6–10 p.m.   \$                                                   |
| 8/25      | <b>Garden Gallop</b>   <i>Presented by Graybar</i><br>7–9 a.m.    \$                          |
| 8/31–9/2  | <b>Japanese Festival</b>   9 a.m.–8 p.m., Saturday and Sunday and 9 a.m.– 5 p.m., Monday   \$ |



### What is the white powdery residue on my plants?

Powdery mildew is a very common fungal disease found in home gardens. A plant with powdery mildew will have white powder on the foliage. This powder is the mycelium, or vegetative, part of the fungus. Usually powdery mildew is not fatal, but discoloration and curling of the foliage is possible. It can also negatively affect fruiting and flowering. The spores are spread when the days are hot and humid and the nights are cool, usually in spring. Growth then accelerates throughout the summer. Some of the ornamental plants most commonly affected by powdery mildew are peonies, lilacs, azaleas, phlox, squash, and zinnias.

You can minimize powdery mildew on your plants. The spores can overwinter in dead plant material, so be sure to clean up garden beds before spring arrives. A layer of mulch can also keep the spores from splashing onto the foliage. Providing enough room in between plants will increase the amount of air circulation around them and create a less suitable environment for the fungus to grow. Sulfur or copper fungicides are also effective if used properly. The best defense against powdery mildew is to choose plant varieties have been bred to have resistance to the disease.

For more advice, tips, and resources visit [gardeninghelp.org](http://gardeninghelp.org).

**Plant Societies’ Shows and Sales**  
Get the latest information about your favorite plant society’s show and sale by visiting [mobot.org/plantsocieties](http://mobot.org/plantsocieties).

|                                                                                   |                                            |     |                                             |
|-----------------------------------------------------------------------------------|--------------------------------------------|-----|---------------------------------------------|
| <b>Key</b> ( <i>All events take place at the Garden unless otherwise noted.</i> ) |                                            |     |                                             |
| BH                                                                                | Butterfly House                            | KC  | Kemper Center for Home Gardening            |
| BHGS                                                                              | Butterfly House Gift Shop                  | LS  | Little Shop Around the Corner               |
| CA                                                                                | Cohen Amphitheater                         | MC  | Monsanto Research Center                    |
| CBEC                                                                              | Commerce Bank Center for Science Education | MH  | Monsanto Hall (in RVC)                      |
| CHD                                                                               | Children’s Garden                          | RVC | Ridgway Visitor Center                      |
| CL                                                                                | Climatron lawn                             | SNR | Shaw Nature Reserve                         |
| GGs                                                                               | Garden Gate Shop                           | SP  | Spink Pavilion                              |
| JE                                                                                | Jordan Education Wing (in RVC)             | ST  | Shoenberg Theater (in RVC)                  |
|                                                                                   |                                            |     | Sassafras                                   |
|                                                                                   |                                            |     | Members-only event                          |
|                                                                                   |                                            |     | Double punches at Garden Gate Shop          |
|                                                                                   |                                            |     | Double punches at Butterfly House Gift Shop |
|                                                                                   |                                            |     | Reservations required                       |
|                                                                                   |                                            |     | Fee required                                |

photos by (front) BH Staff, Steve Frank, Tom Incrocci, and Kat Niehaus.  
(this page) Claire Cohen, Karen Fletcher, Tom Incrocci, Robin Powell, and Demi Striglos.



# bulletin



MISSOURI BOTANICAL GARDEN

Fall 2019

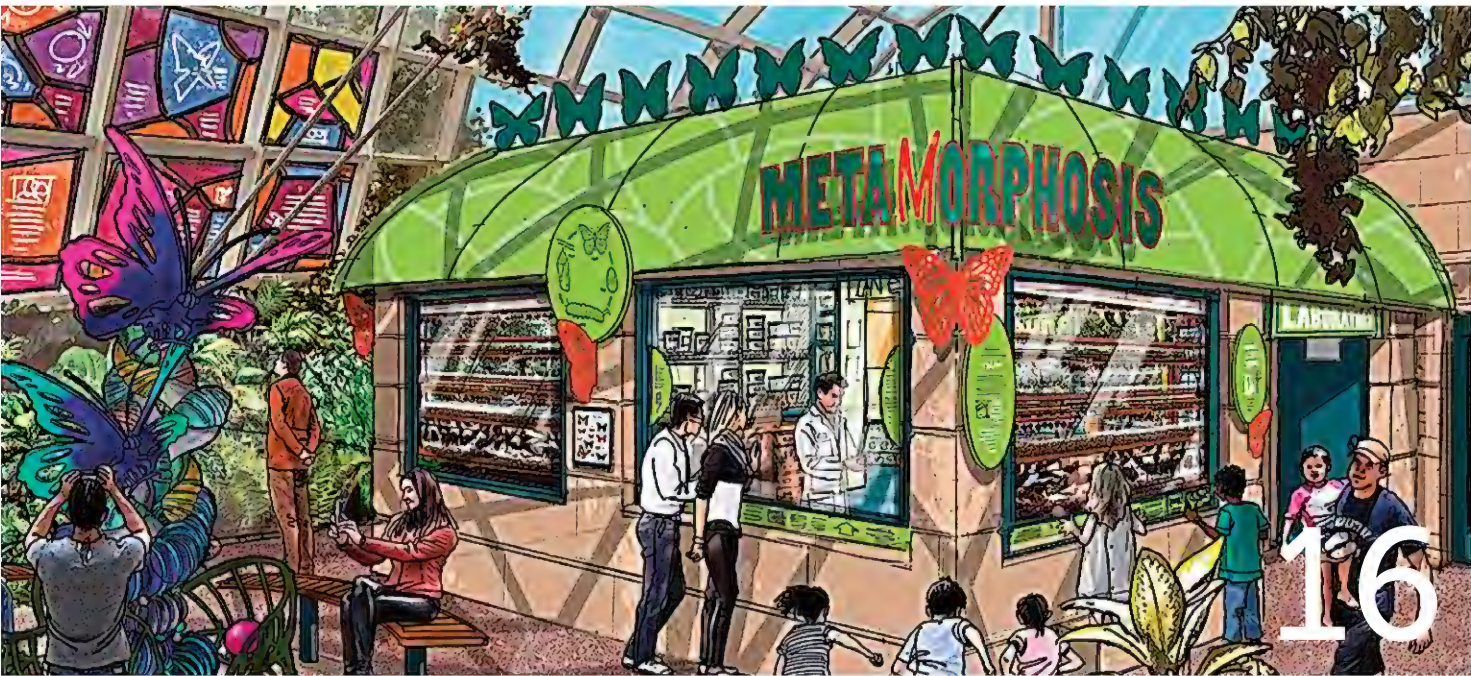
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Thank you! Your membership provides critical support for our international and local plant science and conservation work, and Garden memberships and contributions provide 24% of our annual operating funds.  
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### hours and admission

For hours and admission prices at our three locations, visit [mobot.org](http://mobot.org), [butterflyhouse.org](http://butterflyhouse.org), and [shawnature.org](http://shawnature.org).

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### on the cover

Take a stroll through the Japanese Garden to see the beautiful fall color. Photo by Kent Burgess.

### credits

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*To discover and share knowledge about plants and their environment in order to preserve and enrich life.*

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# from the president



Fall is a favorite time of the year for so many people to visit all three of our Garden locations. Be sure to review the calendar insert for a full list of all of this season's activities. We are adding a new tradition to our program this year with the return of a weeklong focus on trees (see page 8), scheduled to coincide with the onset of fall foliage. The vibrant

fall colors of the tree canopy create truly glorious views at the Garden and Shaw Nature Reserve, and I hope you will be able to make time to enjoy the fall color with us this year.

This season is also one of anticipation. Our Garden horticulturists are already planning and planting the displays we will enjoy next spring, and we are looking forward to some exciting future developments throughout the Garden organization.

The Garden was recently named an official Red List Partner of the International Union for Conservation of Nature (IUCN) (see page 6). Going forward, members of our research and conservation teams will play an increasingly pivotal role in documenting which plant species are at risk of extinction.

Later this fall we will select the first participants in our new Youth Fellowship Program (see page 4), an opportunity for ten local high school students to engage in environmental action projects and earn financial support for their future education or careers.

Next spring, the Butterfly House will begin construction on our new Entomology Lab (see page 16). When completed, this new facility will welcome visitors to journey behind the scenes of the cultivation and care of some of our favorite pollinators. Projects like these are made possible by the generous support of donors like you, and I encourage you to visit the Butterfly House frequently over the coming months to see the progress.

Most importantly, we are looking forward to celebrating you, our members, with an entire week of special activities, savings, and more this November (see page 19). Whether you take advantage of these offerings or simply enjoy some quiet time at one of our locations this fall, I want you to know how important your support is to the Garden. You truly make our mission possible.

Dr. Peter Wyse Jackson, *President*



# what's new?



## Children's Garden Named a Certified Wildlife Habitat®

The National Wildlife Federation (NWF) has recognized the Doris I. Schnuck Children's Garden as a Certified Wildlife Habitat® through its *Garden for Wildlife* program. The certification acknowledges the Garden's efforts to make the Children's Garden a sustainable haven for local and migratory wildlife such as bees, butterflies, birds, and amphibians by providing food, water, and shelter through sustainable means. This recognition has also been co-certified with NWF's state affiliate, the Conservation Federation of Missouri. NWF leadership presented the Garden with its certification during a visit in June of this year, during which NWF board members and directors from all 50 states participated in a variety of expert-led tours focused on the Garden's work in plant science, conservation, horticulture, and sustainability.

## Sustainability Coordinator Receives Conservation Award

Earlier this summer, Rob Kennedy, Sustainability Programs Coordinator at the Garden's EarthWays Center, received the Plant Conservation Award from the Missouri Native Plant Society. The award recognizes an individual or organization for outstanding contributions to the conservation or preservation of native plants or plant communities in Missouri. Rob was honored for his work coordinating Metropolitan Sewer District Rainscaping, the Shaw Salon Series, and his support of the Garden's Green Business Challenge.

## Youth Fellowship Program Launches

Launched this July, the Garden's new Youth Fellowship Program honors high school-aged youth for their environmental activities and impacts, providing them with both public recognition as well as financial support to help them pursue their academic or career next steps. This November ten youth fellows will be selected to participate in a Youth Fellows Weekend next February and carry out action projects in the following spring. Each participant will receive a \$500 scholarship at an awards presentation next May. Submissions accepted through November 1 at [mobot.org/youthfellowship](http://mobot.org/youthfellowship).

Support to launch the new Youth Fellowship program is provided by Dave and Mary Tognoni. If you are interested in helping support this scholarship program, email Sarah Palermo at [spalermo@mobot.org](mailto:spalermo@mobot.org).



## Outdoor Youth Corps Program Expands

The Garden's Outdoor Youth Corps program employs St. Louis-area teens and young adults in outdoor environmental stewardship working alongside field professionals to help maintain and care for our region's outdoor areas, learning valuable career and life skills along the way. This summer the program expanded from its base in North St. Louis City to a second crew working closer to the main Garden campus in South City. In total, 15 area youths participated in the 2019 Corps.





## Garden St. Patrick's Day Parade Float Wins Top Honor

For the third time in less than a decade, the Garden's float in the Metropolitan St. Louis St. Patrick's Day Parade has been awarded the James M. Shea Award for Overall Excellence, the highest honor offered by the Parade Committee. The Garden's float, which celebrates "conserving the world's green," is designed each year by Pat Scace, Supervisor of Floral Display, and her team. Dozens of Horticulture staff members and Garden volunteers participated in the float's construction and its 1.1-mile trip through downtown St. Louis. The Garden's 2019 float was also named Best Commercial Float.



## New Trustee

The Garden recently welcomed Brian A. Murphy to the Board of Trustees.

## St. Louis Lands in Top 10% in 2019 City Nature Challenge

Once again, the St. Louis region emerged a leader in the annual City Nature Challenge, a global competition among cities and metropolitan regions to see who can document the most wildlife in four days. This year's event was held from April 26–29, with more than 160 cities competing. The Garden played a lead role in organizing the St. Louis region's participation.

**13,758 observations | 1,606 species | 779 participants**

# GARDEN PARTY LIGHTS

## Illuminate Fall Evenings at Garden Party Lights

Enjoy cool autumn evenings in the Garden, sample local libations in the Biergarten, and wonder at dynamic multimedia displays throughout Garden grounds during the final weeks of Garden Party Lights, open Thursday through Sunday evenings now through October 19 (closed October 3–6).

Save \$5 per ticket (up to 4 tickets) when purchasing Garden Party Lights tickets online! Visit [mobot.org/gardenpartylights](https://mobot.org/gardenpartylights) and enter code GPL5OFF.







*Karomia gigas*, designated Critically Endangered on the IUCN Red List.

## Garden Named an Official Red List Partner

Early this summer, the International Union for Conservation of Nature (IUCN) named the Garden an official partner presiding over the IUCN Red List of Threatened Species™—the world’s most comprehensive information source on the global conservation status of animal, fungi, and plant species. The Garden’s involvement with the Red List dates back more than 30 years, with Garden scientists regularly contributing to the collection of data used by the IUCN to assess the risk of extinction for every plant species in the world and prioritize conservation efforts accordingly. As an official Red List Partner—and the first botanical garden in the United States to receive such a designation—the Garden joins a distinguished group of 12 international organizations in guiding the Red List agenda and informing worldwide conservation management recommendations.

## Fall Symposium Spotlights Neotropical Diversity

The American tropics may be the most biodiverse region in the planet. The Garden’s 66th Annual Fall Symposium—taking place October 11–12, 2019—will focus on the origins and maintenance of this biodiversity as we welcome a distinguished group of speakers actively working to further our understanding of species diversity in the neotropics. The program will include approaches from large-scale studies on the diversification and evolution of clades to local-scale research on species interactions. Visit [mobot.org/symposium](http://mobot.org/symposium) to learn more.



## Garden Scientists Honored



Dr. Jan Salick

National Tropical Botanical Garden in Kalāheo, Hawaii, has awarded Dr. Jan Salick, Senior Curator Emerita with the William L. Brown Center, its 2020 David Fairchild Medal for Plant Exploration. Prior to retiring earlier this year, Dr. Salick spent more than 15 years traveling between

St. Louis and Tibet studying plant use among indigenous people and the impact of climate change on plants and people. The David Fairchild Medal honors Salick’s “distinguished service to humanity by continuing in the legacy of Dr. David Grandison Fairchild in exploring remote areas of the world, using innovative travel itineraries, conveyances, or techniques to discover plant species or cultivars that benefit mankind; to bring into cultivation new and important plants; and playing a crucial role in *ex situ* cultivation and conservation of rare or endangered plant species.” Salick is the second Garden plant explorer to receive the honor, and also the second woman to receive the award.



Matthew Albrecht

The Center for Plant Conservation (CPC) has awarded Matthew Albrecht, Associate Scientist at the Center for Conservation and Sustainable Development, the 2019 Star Award. Albrecht received the honor in recognition of his dedication to conserving the flora of the United States and for his outstanding scientific paper published this year in *Conservation Biology*, which garnered CPC network expertise, fostered true collaboration, and helped shed light to improve the critical conservation practice of plant reintroduction for the benefit of the world’s rarest plant species.





Dr. Alex Linan

## Rare Species Rediscovered by Garden Graduate Student

Dr. Alex Linan, a student working in the Garden's Mauritius program, has rediscovered a species of *Diospyros* on the island nation long thought to be extinct. *Diospyros* are ebonies and persimmons that include 800 species worldwide. The last known individual of *D. angulata* died in 2000. Through

the use of genomic analyses, Linan and Dr. Christy Edwards of the Garden's Center for Conservation and Sustainability guided a collaborator to a locality where one individual was found in fruit. Linan is currently working to confirm the genetic identity of this individual through additional analysis.

## Curator's Corner: Sachs Museum

*Leafing through History: Plants that Make Paper* now through October 27

Currently on view at the Sachs Museum is the special exhibition, *Leafing through History: Plants that Make Paper*, which features the art of origami, an important part of the history of paper and papermaking. Japanese for "folding paper," origami has long been a creative adaptation of this delicate, yet strong and flexible plant fiber product. Ancient Americans made cut and folded paper decoration and spiritual objects thousands of years ago from amate, a paper material made from fig species. Once true papermaking spread from China over 2000 years ago, different cultures throughout Asia folded paper to use as clothing, decoration, and containers.

Today, contemporary origami artists are inspired to use different and unique papers made from different plants around the world, as some of these papers are particularly useful in allowing the artists to experiment with new folds and shapes, including curvilinear sculptures. Ethnobotanist and origami artist James Lucas shared several of his artworks in the exhibition, and his doctoral studies are focused on the ethnobotany of the plants used to make the papers used in origami in different countries.

—Nezka Pfeifer, *Museum Curator*



Bactrian Camel



## Cataloging Diversity Across the Americas

Carmen Ulloa

Curator, Science and Conservation

Dr. Carmen Ulloa "didn't think twice" about joining the Garden's research staff when the opportunity arose 26 years ago.

Since that decision, Ulloa has traveled the world on behalf of the Garden, with a significant concentration on Latin America. Her first project, *Flora de Nicaragua*, was the first modern documentation of the flora of the Central American republic and the first complete account published in Spanish for a Latin American country.

Though she spends the majority of her time in St. Louis as editor of the *Flora Mesoamericana*, Ulloa continues to conduct field work in her native Ecuador, where she travels at least once a year.

One of Ulloa's latest achievements, the completion of a major listing of all of the vascular plants of the Americas, is an especially gratifying accomplishment and garnered international media attention following its publication in the journal *Science*. "For the first time, we have in a single list how many plants are in the New World," she explains. "Now we know what we can conserve."

**Learn More** about Dr. Ulloa's work at our October 15 Member Speaker Series presentation (see page 18).



# what can you do?

## Explore Hidden Treasures Across Garden Grounds

A new photography exhibit on display in the Ridgway Visitor Center now through November 10 encourages you to see the Garden like you've never seen it before. Inspired by popular "I spy" scavenger hunts, Garden Treasure Hunt features more than 30 unique images of small, secret, or underseen symbols, sculptures, and architectural elements located throughout the Garden—and challenges you to find them all. Show off your Garden knowledge by sharing your discoveries—or your own favorite hidden Garden gems—using the hashtag #GardenTreasureHunt. Learn more at [mobot.org/events](http://mobot.org/events).



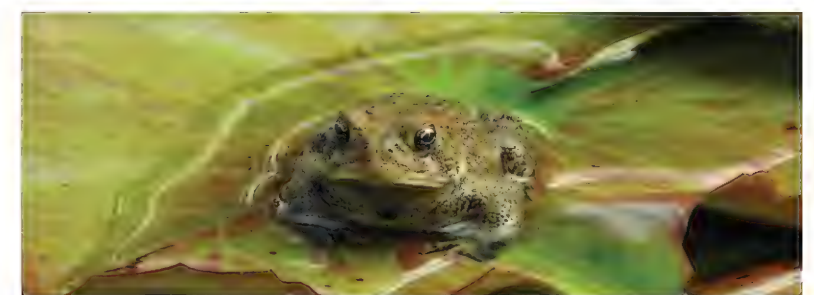
## Advance Your Education With a New Master's Program

Learn with the Garden while earning your master's degree from Miami University of Ohio through the Advanced Inquiry Program (AIP). AIP offers a ground-breaking master's degree that combines web-based graduate courses through Miami University with face-to-face experiential and field study at some of the nation's premiere community learning institutions, including the Garden. If you're interested in advancing your career through global leadership, community engagement, and environmental stewardship, learn more at [mobot.org/AIP](http://mobot.org/AIP). Enrollment for summer 2020 opens September 1, 2019 and runs through February 28, 2020. This opportunity is open to any applicant with a bachelor's degree, regardless of academic major or profession.



## Close Out Another Season of Fun in the Children's Garden

Join us November 2–3 from 9 a.m. to 3 p.m. as we wrap up the operating season for the Doris I. Schnuck Children's Garden. Enjoy two festive, fun-filled days of hands-on activities celebrating the changing of the seasons. See what's ready to harvest in the edible garden, pot an edible plant to take home, enjoy live music, visit with World Bird Sanctuary experts, and meet our mascot, Finn. Learn more at [mobot.org/finn](http://mobot.org/finn).



## Discover a New Skill

The Missouri Botanical Garden, Sophia M. Sachs Butterfly House, and Shaw Nature Reserve are more than just beautiful destinations. They are living classrooms that connect people of all ages to the wonderful world of plants—from cooking, painting, and photography courses to green living, outdoor exploring, and gardening classes. Registration for the fall/winter session is now open, and you will find something for everyone. Now is the perfect time to learn a new skill, discover a new passion, or reconnect with the natural world in a whole new way. Members save on registration for all classes. Visit [mobot.org/classes](http://mobot.org/classes).



## BioBlitz at Shaw Nature Reserve

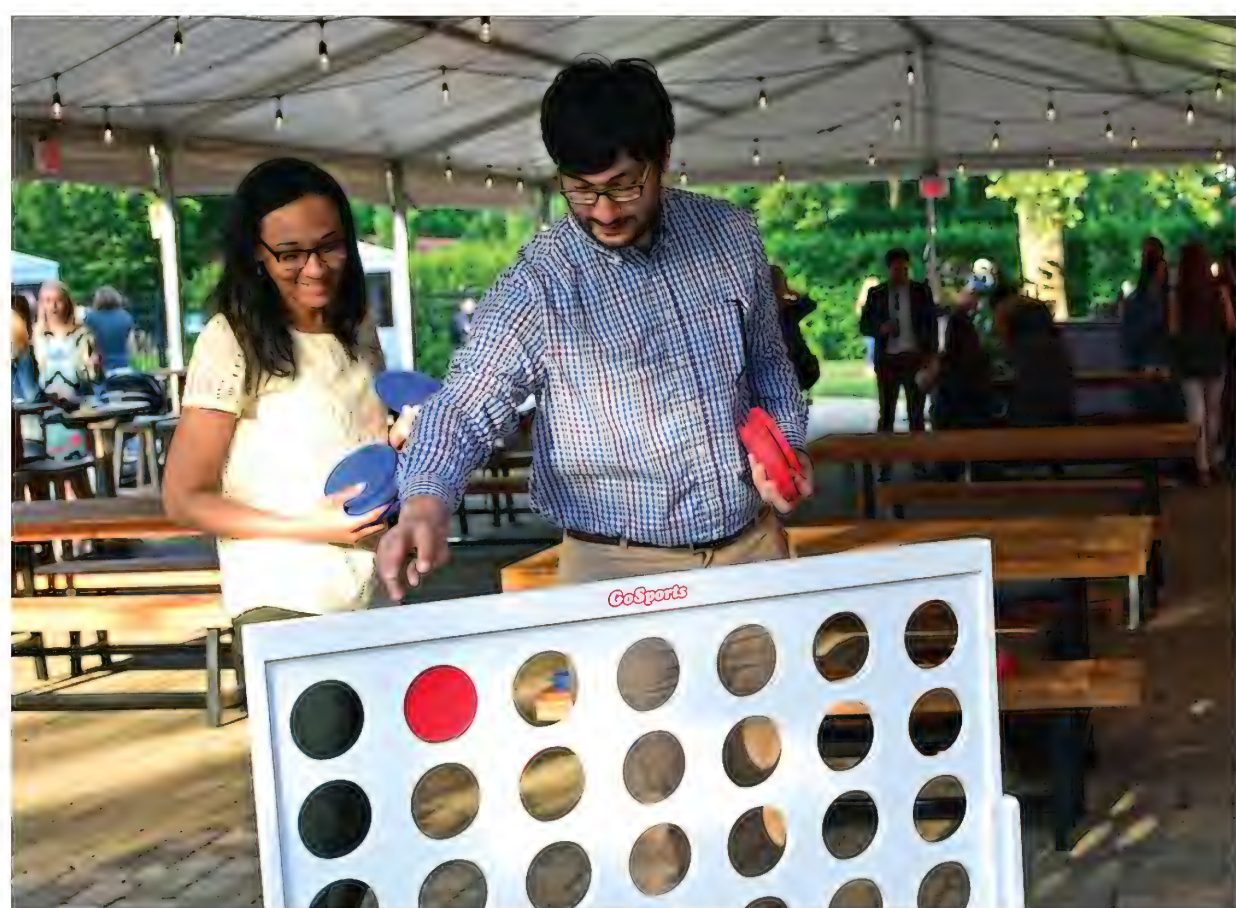
Set off on an educational adventure this fall at the St. Louis BioBlitz, led by the Academy of Science - St. Louis. Volunteer teams will trek through the diverse habitats of Shaw Nature Reserve to record as many species as possible with the iNaturalist app. Groups will be led by naturalists, biologists, and environmental specialists. Participation in this citizen science project is open to everyone, no experience necessary, but registration is required. In 2017, BioBlitz participants found an endangered Indiana bat at the Nature Reserve, launching vital research and conservation projects. Join us September 20–21. Visit [shawnature.org](http://shawnature.org). Learn more about BioBlitz on page 15.

photography by Lisa DeLorenzo Hager, Tom Incrocci, and Yihuang Lu



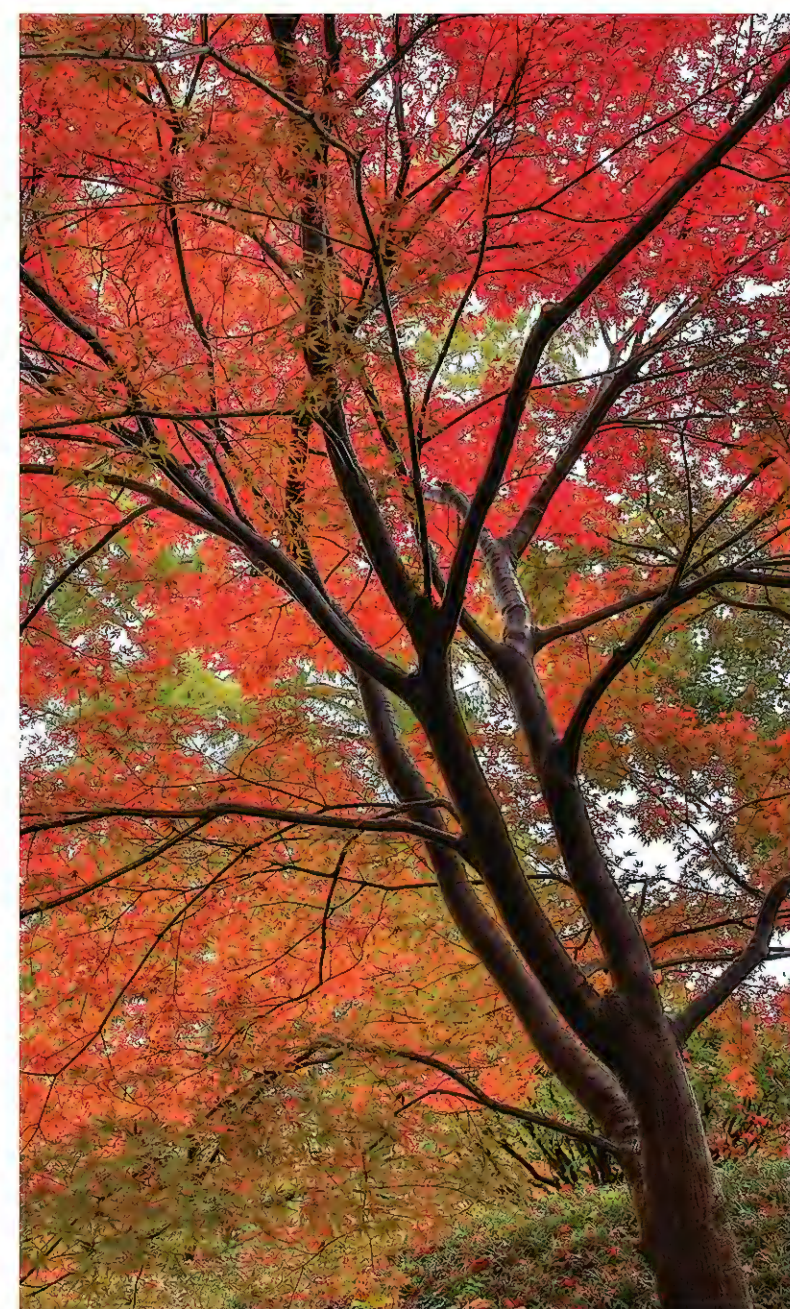
## Celebrate Educator Appreciation Week

This fall the Garden recognizes area educators for all that they do with special offers during Educator Appreciation Week, September 14–21. On the evening of Sunday, September 15, all area educators—including PreK–12 teachers, administrators, school staff members, homeschooling parents, higher education faculty, and local informal educators—can enjoy free admission to Garden Party Lights. Registration is required; visit [mobot.org/events](http://mobot.org/events) for more information. In addition, educators receive 20% off Garden memberships at any of our three sites throughout the week.



## Share an Oktoberfest Toast at Garden Party Lights

Bring your friends and family to the Biergarten Saturday, October 19 for an Oktoberfest celebration featuring live music from the So. Grand Polka Band. The Biergarten is open during Garden Party Lights, Thursday through Sunday evenings September 5–October 19 (closed October 3–6). Learn more and purchase your tickets in advance at [mobot.org/gardenpartylights](http://mobot.org/gardenpartylights).



## Tree Week

Celebrate the Garden's fantastic fall color at the second annual Tree Week, October 27 to November 3. Take a docent-led or self-guided tour of the Garden's impressive tree collection, or simply soak in the show-stopping hues of the Japanese maples in the Japanese Garden.

Plan your Tree Week visit by scanning the QR code above or by checking out the Garden's blog at [discoverandshare.org](http://discoverandshare.org).



## Commemorate Founder's Day at the Butterfly House

Wish a happy 21st birthday to the Butterfly House on September 18 from 10 a.m. to 4 p.m. Take a walk through the past two decades to learn about Butterfly House founder Evelyn Newman, and see what's next for the future (see page 16). Admission is free all day for members and nonmembers. More information is available at [butterflyhouse.org](http://butterflyhouse.org).

Celebrate the occasion by making a gift to support the Butterfly House at [butterflyhouse.org/lab](http://butterflyhouse.org/lab).



# Seeding St. Louis

How the Garden's deep-rooted  
commitment to the city and  
region continues to bear fruit





"The most visible 'fruit' of Garden seeds are the brilliant outdoor places that St. Louis residents and visitors alike can enjoy."



Missouri Botanical Garden



Tower Grove Park



Shaw Nature Reserve

For 160 years, the Missouri Botanical Garden has been committed to the growth of St. Louis. Each generation has cultivated the seeds planted by those who came before to advance our mission across the region and beyond. In this season of gratitude and thanksgiving, Vice President of Education Sheila Voss reflects on the role the Garden plays in our community today.

For those of us who have personally submerged a tiny seed in gently overturned soil, we know this truth: Small things, when planted with care and intent, can overcome enormous odds and bloom in beautiful, life-sustaining ways.

Since opening in 1859 as a science-driven botanical garden for the use and enjoyment of all, the Missouri Botanical Garden has been planting its own seeds of change in St. Louis and beyond. From transforming the actual landscape and life-scape of the region to cultivating ideas that disperse and grow where they land, the Garden's impact isn't limited to its own soil. In truth, perhaps the most important and sustained impact can be seen in places, projects, and people far and wide, now thriving on their own, but still benefiting from early seeds of Garden support, encouragement, expertise, and partnership.

### Beloved Outdoor Gems

To be sure, the most visible "fruit" of Garden seeds are the brilliant outdoor places that St. Louis residents and visitors alike can enjoy. The Missouri Botanical Garden itself took root and blossomed into what it is today thanks to founder Henry Shaw and the people who helped him. After establishing the Garden, Shaw donated a much larger tract of adjacent land to the City of St. Louis to be "used as a park forever," eventually to be known as Tower Grove Park. Not long after, the Garden secured an even bigger tract of land west of the City, known today as Shaw Nature Reserve.

Fast forward to more recent history and consider the Garden's influence on the early formative years of such places and organizations as varied as Citygarden, the Sunflower+ Project: STL, and Gateway Greening. In each case, the Missouri Botanical Garden planted seeds of support, guidance, and encouragement throughout different stages of development and growth.

In each case, those seeds germinated and broke through to sun. Today, 160 years after opening, the Garden is a National Historic Landmark and a world-renowned center for plant science, conservation, horticulture, education, and sustainability that plays host to more than a million visitors a year. Shaw Nature Reserve is a destination like none other—a hub for environmental education, native plant horticulture, and ecological restoration. Tower Grove Park is a much-loved municipal park full of vibrant, colorful life. Citygarden is a popular playspace and urban oasis in the heart of Downtown. The Sunflower+ Project: STL is beautifying vacant lots in Old North and Dutchtown,





and benefiting people, plants, and pollinators at the same time. Gateway Greening is a thriving non-profit that is transforming the region through urban agriculture, supporting a network of more than 200 community gardens and counting. Sweet fruit, indeed.

### Recognition as a Hot Spot for Plant Science and Conservation

Beyond physical places, Henry Shaw's philanthropy also provided early seeds of support for institutions such as Washington University in St. Louis, where Shaw endowed the George Engelmann professorship in botany. Beyond the academic realm, the Garden's support over the past 160 years has helped equip a diversity of institutions to advance the much-needed work of plant science and conservation. In many ways, this support "seeded" St. Louis to become the regionally and globally recognized hub for plant science it has grown into today.

These seeds of support and leadership can be seen in the Garden's joint research associates shared with Washington University, Saint Louis University, Donald Danforth Plant Science Center, and other institutions. They can be seen in the timely and urgent work of these researchers, ranging from sustainable agriculture and climate change mitigation to medicinal plant discovery and conservation genetics. They can be seen in the rise of Shaw Nature Reserve as the region's go-to resource for native plant horticulture and ecological restoration. Broader still, they can be seen in Garden President Dr. Peter Wyse Jackson's roles serving on the boards of the Cortex Innovation Community and BioSTL, both initiatives aimed at catalyzing economic development while contributing to a more livable world. They can be seen in the recently created Living Earth Collaborative™, a biodiversity-focused research partnership

between Washington University, the Missouri Botanical Garden, and the Saint Louis Zoo that seeks to accelerate science-driven solutions to biodiversity loss.

As more professionals across different sectors—academic/research, government, and business—triple-down on plant science, they are realizing the significant potential of plants to solve global issues, create jobs, and promote sustainable livelihoods. Increasingly, more of this work is being done right here in St. Louis. Henry Shaw would be proud.

### A More Sustainable Region

While sustainability wasn't a tip-of-the-tongue concept of his day, Henry would also be proud of the Garden's leadership role on this front. The Garden's commitment to sustainability manifests throughout its operations. Interactions with visitors and the general public are each like a carefully planted seed, something that could grow into greater understanding, new perspectives, and changed behaviors.

Visitors to the Garden's annual Green Living Festival (save the date for June 6, 2020) leave more informed, inspired, and equipped to take real action in their own homes and communities to live less resource-intense lives. Each year, the thousands of people who attend the Garden's signature festivals experience the region's "gold standard" in waste management for large events, with vendors required to use all compostable disposables and Zero-Waste Ambassador stations set up across grounds, diverting waste to compost and recycling streams. The Garden's plastic pot recycling program grew from a small home-base operation to a region-wide program now operated by a third-party recycler. Since 1998, this one





Learn more about the Garden's role in St. Louis—past, present, and future—on our blog at [discoverandshare.org](https://discoverandshare.org).

program has diverted more than one million pounds of horticultural waste from landfills.

Extending far beyond its own sites, the Garden's "seeds" of sustainability have been planted across the region: places like the 21 municipalities benefitting from the Deer Creek Watershed Alliance, a project of the Garden that uses plant-based solutions to manage stormwater, prevent erosion, and improve water quality. Seeds of support have also been planted in more than 200 local businesses that are part of the Garden's St. Louis Green Business Challenge and the thousands of people each year who seek out sustainability answers and tips from the Garden's Green Resources Answer Service. Garden staffers have seeded the OneSTL Sustainability Plan with plant-inspired approaches to advancing biodiversity, water and green infrastructure, and clean energy. In fact, there are more than 35 sustainability based programs the Garden coordinates in the community. New in 2019, the Garden is planting a significant seed in the solar market through its launch of Grow Solar St. Louis, a group buy program aimed at incentivizing and simplifying the transition to solar energy for homeowners and businesses.

### A Culture of Volunteerism and Civic Engagement

Perhaps the seeds that have proven the most fruitful are the thousands of volunteers who help make St. Louis greener, healthier, and full of life. The culture of volunteerism and civic engagement is strong in St. Louis.

As an organization significantly reliant on volunteers for its daily operations and fully aware of the impact of this special group of people, the Garden also seeks out ways to activate volunteers beyond its borders.

From the St. Louis Master Gardener network that began in the early 1980s to its more recent region-wide recruitment of citizen stewards and citizen scientists, the Garden knows the undeniable impact of people who take what they learn from the Garden and apply it for the betterment of their own communities. The Garden-coordinated Honeysuckle Sweep for Healthy Habitat campaign is testament to that. In the past three years, this semi-annual stewardship action project has activated more than 2,000 volunteers to remove invasive bush honeysuckle from over 70 acres across 60 sites. On the citizen science front, the Garden collaborates with regional partners to encourage people of all ages and abilities to get out and document nearby nature, data that is helping shape a regional biodiversity atlas.

The Missouri Botanical Garden is just one part of an entire ecosystem of people, organizations, and agencies working to advance and lift up St. Louis. The only way the mission of the Garden will ultimately be achieved is when every single person in this ecosystem finds ways to live lighter, ensuring a livable world for all. Until then, the Garden will continue to carry on its tradition of sowing seeds everywhere it goes, knowing that those seeds, if given the chance, can literally change the world.





# Batty FOR Biodiversity

Proper safeguarding and stewardship of our flora has the very intended effect of also benefiting our fauna. Just like humans, animals depend on plants for things like food and shelter. And plants often rely on animals for pollination and seed dispersal. Protecting plant habitats allows these beneficial relationships to occur as nature intended. Monarch butterflies need milkweed, squirrels need nuts, and bats need trees.

Shaw Nature Reserve is an ideal habitat for bats. It has plenty of mature trees with nooks, crannies, and hollows for roosting females. The streams, wetlands, and Meramec River are a readily available water source. And there are plenty of insects to eat.

Missouri-native bats are insectivores, which is one of the reasons they are so important to our ecosystem. These flying mammals eat everything from mosquitoes to moths, keeping insect populations in check. The Nature Reserve boasts an impressive diversity of bat species, which we now know more about thanks to a single encounter.

In 2017, the Nature Reserve hosted the Academy of Science–St. Louis Bioblitz. For two days, participants combed the area looking for as many plant and animal species as they could find.

A single Indiana bat (*Myotis sodalis*) was captured during an evening session along Brush Creek. The Indiana bat is federally endangered, and had never been documented at the Nature Reserve before that night.

Wildheart Ecology, which carried out the Bioblitz bat survey, made plans to dive deeper into the bat biodiversity of the Nature Reserve. In the summer of 2018, researchers

Vona Kuczynska and Jennifer Mullikin placed a series of acoustic detectors around the Nature Reserve, capturing unique audio signatures for each bat species.

The data revealed the presence of nine different species, including the Indiana bat, the endangered gray bat (*Myotis grisescens*), and several other species of conservation concern. Because some bats are migratory, it is possible even more species call the Nature Reserve home throughout the year.

In 2019, the U.S. Fish and Wildlife Services carried out mist netting at the Nature Reserve in hopes of gathering even more information about the bats that live there. Large nets were set up in areas where bats might go to feed. Bats flew into the nets; researchers removed them and recorded data such as species, sex, and weight; then the bats were released back into the night sky.

Within minutes of opening the nets, bats were being captured for processing. The first Indiana bat captured that night was the exact same bat from the BioBlitz nearly two years earlier, noted by a Missouri Department of Conservation band placed on its wing. Researchers placed a transmitter on the bat—given the name Celeste—and three others in order to track them to their roost.

With the help of Nature Reserve staff, the roost was located in a burned-out tree near the Meramec River. The area is a perfect example of the natural and man-made forces at work to create this bat habitat. Two major floods along the Meramec in recent years deposited large amounts of driftwood in the woodland near the river. Nature Reserve staff treated the area with prescribed burning in 2017 at a





## Bats of Shaw Nature Reserve

Big brown bat (*Eptesicus fuscus*)  
 Eastern red bat (*Lasiurus borealis*)  
 Evening bat (*Nycticeius humeralis*)  
 Gray bat (*Myotis grisescens*)\*+  
 Hoary bat (*Lasiurus cinereus*)  
 Indiana bat (*Myotis sodalis*)\*+  
 Little brown bat (*Myotis lucifugus*)\*  
 Northern long-eared bat (*Myotis septentrionalis*)\*  
 Silver-haired bat (*Lasionycteris noctivagans*)  
 Tricolored bat (*Perimyotis subflavus*)\*

\*Species of conservation concern | +Federally protected

time when all that extra wood fuel was dry from drought—creating intense flames that killed off more than a dozen trees. It's one of these trees, a charred silver maple, that two years later served as an enticing roost for Indiana bats.

Researchers returned to the tree several nights at dusk to watch the bats emerge from beneath the bark. Detailed counts revealed more than 150 Indiana bats living in this single tree, making it one of the largest known summer roosting sites for this species in Missouri.

After spending summer at the Nature Reserve, the bats will head for their winter homes. But as we learned from Celeste, they are likely to return again next year. Maybe not to the same tree, but because of excellent ecological management, they should have plenty of options to choose from.

### Bats Under Threat

Bat populations across the United States face many threats including habitat loss, pesticide use, even wind turbines. But one of the biggest threats comes from a devastating disease known as white nose syndrome. The fatal disease is caused by a fungus that grows on hibernating bats, often appearing as a white fuzz on the face and wings. First appearing in the U.S. in 2006, it reached the St. Louis area in 2012, killing millions of bats along the way. Of the nine species documented at Shaw Nature Reserve, at least six are threatened by the spread of this disease. You can help prevent the spread of white nose syndrome by avoiding caves used by hibernating bats and generally leaving these animals alone.

Calling all citizen scientists! Join us for St. Louis BioBlitz on September 20 and 21. Explore the Nature Reserve's diverse habitats. Read more on page 8.

### Volunteer in Action

Jennifer Mullikin is one of the biologists on the Wildheart Ecology team. She's also a member of the Young Friends Council at the Garden. Mullikin says she became interested in the environment while taking ECO-ACT classes at the Garden in high school, and joined the Young Friends as a way to give back. The Young Friends Council puts on events like Fest-of-Ale and Garden Gallop to raise funds for Garden causes. In 2019, the group is focused on sustainability.

For more information on the Young Friends, contact Katie Reinerman at [kreinerman@mobot.org](mailto:kreinerman@mobot.org).



### Bats in Madagascar

Shaw Nature Reserve isn't the only place where Garden stewardship is benefitting bats. In Madagascar, management of the Analalava forest has led to a ten-fold increase in the population of native fruit bats (*Pteropus rufus*). This large bat, endemic to Madagascar, is classified as vulnerable on the IUCN Red List. It is hunted as a meat source, a practice curtailed when the Garden began management of the forest in 2006. These bats play an important role in seed dispersal for fruit trees such as figs.

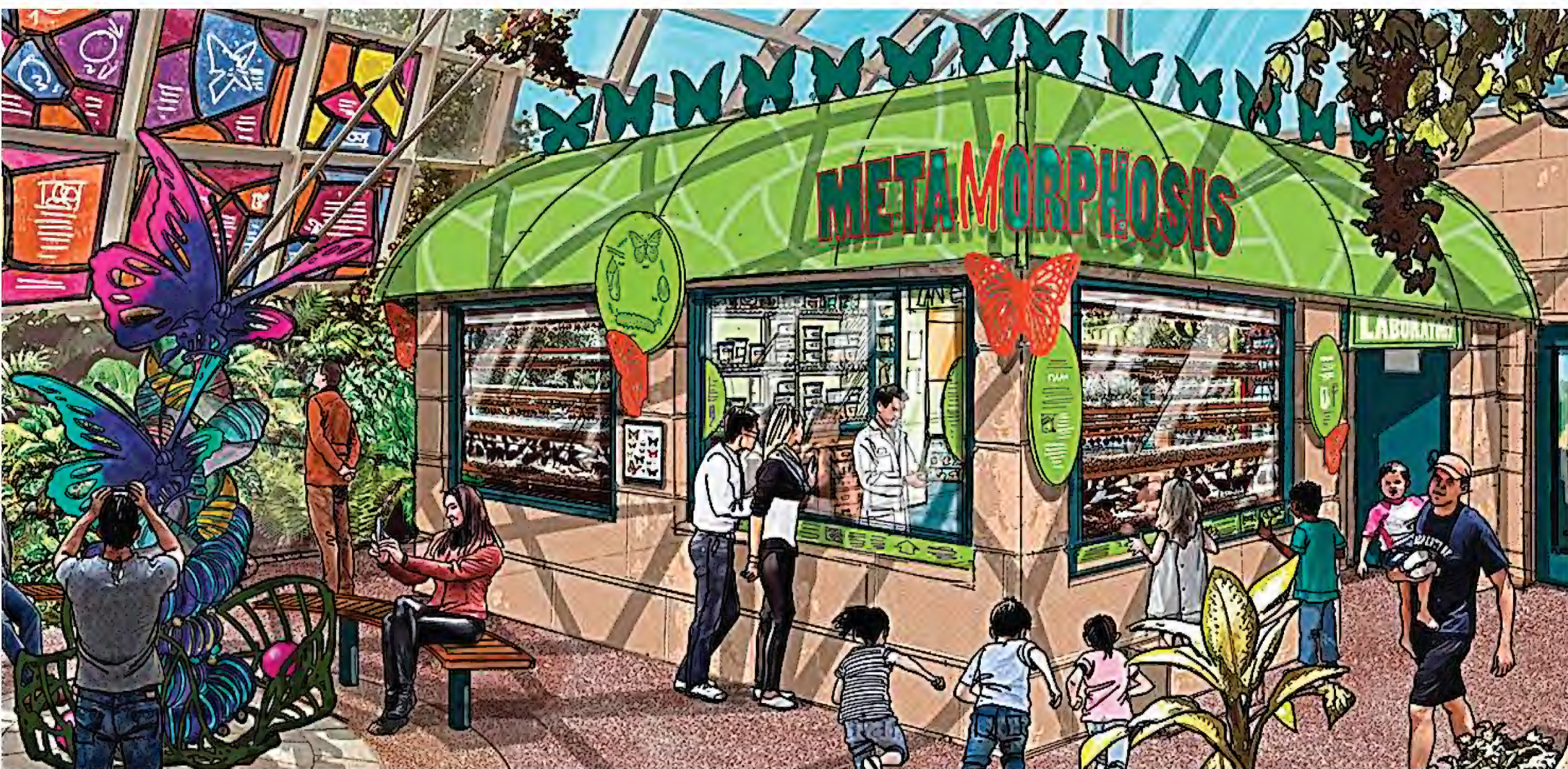
But their relationship with the forest and surrounding community is a complicated one. Their large size and lively movement can damage and even kill some trees. The bats are also known to raid nearby mango plantations for an occasional meal. To promote conservation and ecotourism in the region, the Garden built an observation tower to give visitors a canopy-level view of these animals.





# The Miracle of **METAMORPHOSIS**

An Exciting Transformation  
Coming to the Butterfly House Entomology Lab



If you've visited the Sophia M. Sachs Butterfly House in its first two decades of operation, you've likely marveled at the beautiful butterfly diversity on display, but have you ever wondered how these colorful creatures come to fill the Butterfly House's tropical conservatory?

Promoting entomology—the branch of zoology that focuses on the study of insects—has been part of the Butterfly House's mission since its inception, but much of the work that goes into this discipline has been largely unseen by the visiting public. That will soon change with an extensive transformation of the Butterfly House's entomology lab facilities scheduled to begin in 2020.

The new Butterfly House Entomology Lab will double the space staff use to receive and process arriving butterflies, house hundreds of other invertebrates, and provide visitors an interactive learning experience.

**Help make the new  
Butterfly House  
Entomology Lab  
a reality with a gift!**

Donate today at  
[butterflyhouse.org/lab](http://butterflyhouse.org/lab)





With initial funding by generous donor contributions, the redevelopment project will expand what is currently a 180-square-foot lab—off limits to visitors due to United States Department of Agriculture (USDA) Animal and Plant Health Inspection Service regulations—into a fully interactive learning space highlighting the butterfly life cycle, invertebrate animal conservation, and career exploration in the field of entomology. Guests will get an up-close and awe-inspiring experience as they uncover the miracle of metamorphosis and explore the four stages of the butterfly and moth lifecycles, the differences between a chrysalis and a cocoon, and the international journey butterflies take to arrive at the Butterfly House.

“Our hope is that guests of all ages will have the opportunity to always walk away with new knowledge, whether it’s their first visit or their fiftieth,” explains Butterfly House Director Jennifer Mullix. “The overall goal of the new space is to break down the barrier between what’s on display and what’s behind the scenes, increasing every visitor’s understanding of and appreciation for butterflies and other invertebrates.”

Technology will play an important role in the new Entomology Lab, including new digital interpretation tools highlighting the distinct characteristics of each species on display and new communication hardware that will enable the Butterfly House’s team of experts to conduct virtual “keeper chats” on social media and to host local school and community groups as well as guests from all over the country for virtual field trips in the lab.

“Whether they’re here at the Butterfly House or joining us remotely, guests will get a front-row seat to learn about the important work our entomologists do each day,” Mullix says. “It’s our hope that we will create a foundation that supports change in the negative perception of insects and other invertebrates. Our goal is to help people make the connection that butterflies are insects and insects are animals, which are both fascinating and critical to life as we know it.”



Let your inner party animal take flight this fall at the Butterfly House

## Wicked Wings and Wine

October 4 and 11 | 5:30–7:30 p.m.

As twilight approaches, sample local brews and wines while you learn about owl butterflies and encounter other spook-tacular feathered friends from the World Bird Sanctuary. Take a stroll through the torch-lit garden and enjoy festive music. Dare to try our Bug Chef’s mango-mealworm chutney and chocolate chirp cookies, or play it safe with other light appetizers. Attendees must be at least 21. Advance reservations required.

## BUG BALL

October 26 | 5:30–7:30 p.m.

Your little bugaboos are invited to play games, create spook-tacular crafts, and take home lots of loot after they visit the Butterfly House’s hand-painted treat houses. Guests can munch on creepy pizza fingers, scream cheese, petrifying pastries, eerie pudding, frightful fruit, pumpkin punch, and much more!

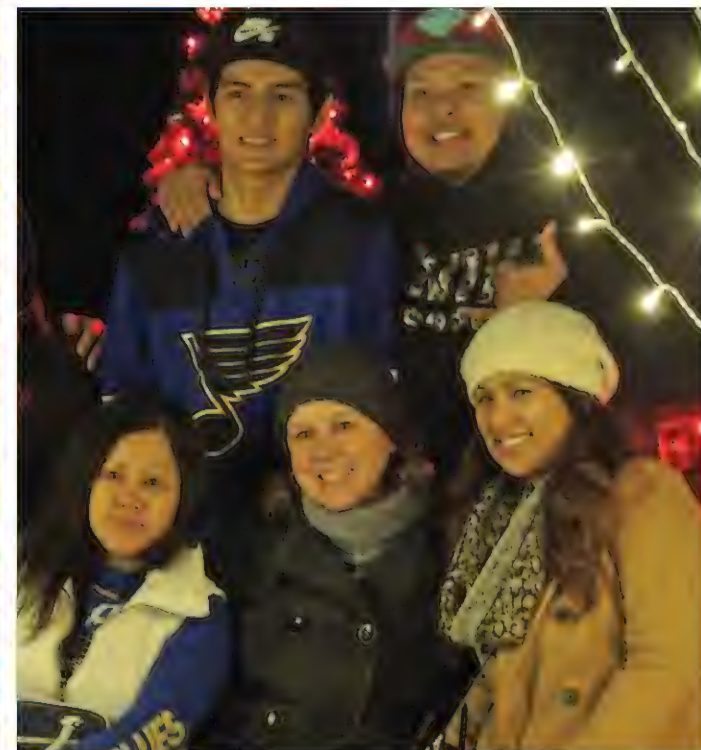
Learn more at [butterflyhouse.org](http://butterflyhouse.org).



# just for members



Information and registration at (314) 577-5118 or [mobot.org/memberevents](http://mobot.org/memberevents) unless otherwise noted.



## Member Speaker Series: Viticulture 101

September 10 | 11 a.m.–noon | Shoenberg Theater  
Join enologist Michael Leonardelli and learn why fine wines are made in the vineyard. This presentation focuses on the significance of regions and vintages, with tips for growing wine grapes in your own garden. FREE for members; registration required.

## Member Speaker Series: Walking in Humboldt's Footsteps

October 15 | 11 a.m.–noon  
Shoenberg Theater  
Celebrate explorer Baron Alexander von Humboldt's 250th birthday with Dr. Carmen Ulloa as she takes you on a botanical journey to Ecuador in the footsteps of "the greatest scientific traveler who ever lived." FREE for members; registration required.

## Ghouls in the Garden

*Presented by Macy's*  
October 27 | 11 a.m.–1:30 p.m. | Linnean Plaza  
Come in costume and enjoy members-only trick-or-treating around the Garden at themed stations. See the circus, dance with some trolls, huff and puff with the Three Little Pigs, and more! End your day with free play and educational activities in the Children's Garden. FREE for members; registration required.

## Garden Glow Member Preview

*Presented by Wells Fargo Advisors*  
November 22 | 5–10 p.m.  
Kick off the holiday season during the exclusive members-only opening of Garden Glow. See a million lights and unique installations amid the Garden's iconic locations. Enjoy a special opening visit from Santa, photo opportunities, music, and food and drinks available for purchase. Advance timed tickets recommended.



November 11–17



# MEMBER APPRECIATION DAYS

This November, we are saying “thank you” to YOU—our family of members—for the generous support you give to help our Garden grow! Enjoy a week of supersized membership benefits—like exclusive free events, shopping perks, and extra discounts—to show our appreciation.

Visit [mobot.org/memberappreciation](https://mobot.org/memberappreciation) for a full schedule of events and special offers.

## Special Events

### Member Speaker Series: Holiday Decorating

November 12 | 11 a.m. and 2:30 p.m.

Shoenberg Theater

Get into the holiday spirit with Claire Waldbardt Kramer of Alex Waldbart Florist during this popular annual program. Learn about the latest floral and decorating trends to deck your halls for the holidays. Two sessions offered; FREE for members; registration required.

### Little Shop Around the Corner Holiday Open House

November 12 | 10 a.m.–5 p.m.

All members receive a special discount of 40% off all purchases. Browse the Little Shop’s one-of-a-kind offerings and enjoy light refreshments.

### Bascom House Tours at Shaw Nature Reserve

November 14 | 10 a.m.–noon

Built in 1879, the Bascom House was one of the first buildings at Shaw Nature Reserve. Join us for a look at the history of the house and adjacent garden. Tours depart at 10 and 11 a.m. Light refreshments provided. FREE for members; registration required.

### Butterfly House Member Morning

November 17 | 9–10 a.m.

Enjoy a members-only hour at the Butterfly House before it opens to the public! Step into the magical lands of Winter Jewels: An Enchanted Celebration to visit fairy houses, make a fairy ornament, and enjoy fairy-sized refreshments. FREE for members; registration required.

## Exclusive Offers

### Save 20% on Membership

Our annual membership sale offers 20% off the Individual through Festival levels of membership. Join, renew, or give a gift membership onsite at the Garden, Butterfly House, or Shaw Nature Reserve, by phone at (314) 577-5118, or online at [mobot.org/membership](https://mobot.org/membership).

*Membership discount cannot be combined with other offers or the Automatic Renewal Program/monthly installment options.*

### Save 10% at Sassafras café

Present your membership card at the café and save 10% off on all purchases every day of Member Appreciation Days.

### Save 40% on Shaw Nature Reserve Merchandise

Show your love of the Nature Reserve with logo merchandise like water bottles, hats, and shirts. Stop by the Nature Reserve’s Visitor Center to take advantage of this sale.

### Special Member Double Day in the Garden Gate Shop

Wednesday, November 13 | 9 a.m.–5 p.m.

Drop by the Garden Gate Shop to double your 10% member discount on all purchases for a total savings of 20%.

Members at the Festival level and higher who regularly save 20% will receive double card punches.



# special events



## JAPANESE FESTIVAL

**AUGUST 31–SEPTEMBER 2**  
Labor Day weekend

Experience the return of majestic sumo wrestling, the thunderous pounding rhythms of the taiko drums, the thrilling *Shishi-Mai* dance, and more. Join or renew at the event and receive free admission. Free for Festival level members and above. More at [mobot.org/japanesefestival](http://mobot.org/japanesefestival).



**Shaw Wildflower Market**  
September 6 | 2–7 p.m. | Shaw Nature Reserve  
Shop locally produced native plants, food, and crafts. Free for members and children (ages 12 and younger); nonmembers \$5 adults; \$3 seniors. More at [shawnature.org/events](http://shawnature.org/events).



## Best of Missouri Market

October 4 | noon–8 p.m.  
October 5–6 | 9 a.m.–5 p.m.

Join us for a weekend of fall fun! Over 120 regional food producers and crafters offer fresh produce, baked goods, local wines, beers, and cocktails, fresh and dried flowers, herbs, handcrafted items, baskets, custom jewelry, and more. Enjoy live music and a kids' corner with crafts and fall activities. Join or renew at the Market and receive free admission. Free for Festival level members and above. Plan your visit at [mobot.org/market](http://mobot.org/market).



October 1–31 | 10 a.m.–4 p.m.  
closed Mondays | Butterfly House  
Celebrate bugs, butterflies, and plants that are wonderfully wicked this October! Meet new frightful friends in the Creepy Crawly Cave, watch out for Botanicals Gone Mad in the Conservatory, and spy on spectacular spiders with the Muffet Family. All daily activities included with admission; free for members. For program schedules and event information visit [butterflyhouse.org](http://butterflyhouse.org).



## Spirits in the Garden

October 25 | 6–9 p.m.

*Presented by Ketel One Botanical*  
Celebrate All Hallows' Eve with botanical spirits, a costume contest, a scavenger hunt, circus performers, and ghost stories. \$20 members; \$30 nonmembers. Cash bar and food available for purchase. Attendees must be at least 21; [mobot.org/spirits](http://mobot.org/spirits).



## Garden Glow

November 23–January 4  
Member Preview | November 22  
*Presented by Wells Fargo Advisors*

Celebrate the season with one million lights, fun new experiences, and traditional favorites. Tickets on sale September 16 for members and September 23 for nonmembers. Visit [mobot.org/glow](http://mobot.org/glow).



From gardening tools and unique toys to vintage items and local products, the Garden shops have just what you're looking for.

Look for these icons to know where each event or sale is taking place.



## Garden Gate Shop

4344 Shaw Blvd.  
St. Louis, MO 63110  
Monday–Sunday  
9 a.m. to 5:30 p.m.  
(314) 577-5137



## Butterfly House Gift Shop

15193 Olive Blvd.  
Chesterfield, MO 63017  
Tuesday–Sunday  
10 a.m. to 4 p.m.  
(314) 577-9477



## Little Shop Around the Corner

4474 Castleman Ave.  
St. Louis, MO 63110  
Tuesday–Saturday  
10 a.m. to 4 p.m.  
Sunday, noon to 4 p.m.  
(314) 577-0891

## Café Flora

Sundays through September 29  
(no service September 1)

10 a.m.–2 p.m. | Spink Pavilion

Come dine at the most beautiful place for brunch in St. Louis! No reservations necessary, but large groups can be accommodated if needed. Gift certificates also available. Email CKramer@caterstl.com for more information.

## First Fridays are Member Double Days

First Friday of each month | 🌿 🍷

All Garden members receive 20% off purchases or double punch card punches on the first Friday of each month.

## Member Double Punch Days

September 17, October 15, and November 6 | 🌿 🍷

All Garden members receive double card punches.

## Little Shop Around the Corner Customer Appreciation Sale

September 28 | 10 a.m.–5 p.m. | 🍷

Enjoy 30% off everything at the Little Shop. No additional discounts apply.

## Around the World Wine Dinners

Third Thursday of the month

Now–November | 7 p.m. | Spink Pavilion

Travel to wine-producing regions through a five-course dinner paired with a different wine from the same region. November's dinner will include Garden Glow admission. Advance reservations required. Gift certificates are available for future wine dinners and make a thoughtful gift. Email CKramer@caterstl.com for more information or to make a reservation.

## Green Earth Art Trunk Show

October 27 | 11 a.m.–4 p.m. | 🌿

Check out concrete castings for your home and garden that celebrate nature and beauty.

## Little Shop Around the Corner Holiday Open House

November 12 | 10 a.m.–5 p.m. | 🍷

Don't miss this exclusive open house for members only during Member Appreciation Days. Members save 40% off everything in the shop. No additional discounts apply.

## Little Shop Around the Corner Silverplate and China Sale

November 19–24 | 10 a.m.–4 p.m.

Tuesday–Friday; noon–4 p.m. Sunday | 🍷

Stock up on vintage and antique silverplate and china items at 50% off. No additional discounts apply.

## Glow Parties



## Plan Your Garden Glow Holiday Party

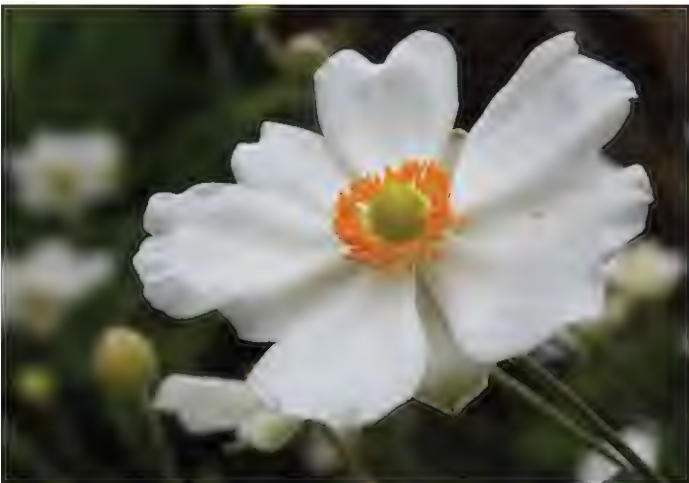
Our two-hour Garden Glow corporate packages are the ideal way to thank your customers, treat your staff, and network with colleagues. Event packages include discounted admission to Garden Glow. For more information and to book your event, email CKramer@caterstl.com.

## Little Shop Around the Corner Donations

Saturday, November 24 is the final day of 2019 to make donations to the Little Shop Around the Corner. Donations are accepted 10 a.m.–4 p.m., Tuesday through Saturday and noon–4 p.m. on Sundays. Visit [littleshop.org](http://littleshop.org) for more information.



# commemorative gifts



April–June 2019  
A commemorative gift is a wonderful way to honor family and friends. Gifts of \$100 or more are listed in the *Bulletin*. For more information about giving opportunities, call (314) 577-5118 or make a commemorative gift at [mobot.org/tributes](http://mobot.org/tributes).

## In Honor of

**Premisri Barton**  
Dr. Melissa Barton

**Anthony Bassett**  
Noel Bortle

**Paul and Judy Costello**  
The Brockland and Costello Families

**Jan Hermann**  
Laure Hullverson

**Deloris Pellarin**  
Jean Corse

**Stephanie Prade**  
Laure Hullverson

**Nancy and Gene Sawalich**  
The Kingwassers

**Lucy, Ari, and Sam Scheitlin**  
Bill Scheitlin

**Sarah Stainbrook**  
Kris Stainbrook

**Gary and Marilyn Suedmeyer**  
Beth Suedmeyer

**Dr. James Trager**  
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Mr. and Mrs. Robert L. Buchanan  
Ms. Jill Cumming  
Mr. and Mrs. William Davit  
Mr. Robert Hansen  
Mr. and Mrs. Donald R. Hays  
Mr. and Mrs. Rexford L. Hill  
Mr. Nels Holmberg

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Mr. and Mrs. Charles E. Kopman  
Leslie Limberg  
Mr. and Mrs. John C. McPheeters  
Mr. and Mrs. William L. Miller, Sr.  
Missouri Botanical Garden  
Mr. David Orthwein  
Mrs. Susan L. Russell  
Mr. William H. Schwab  
Robert V. Siemer and Ann Earley  
Mr. and Mrs. Grenville G. Sutcliffe  
Dr. John F. Zalewski  
**Dr. Peter Wyse Jackson**  
Bethesda Health Group, Inc.

## In Memory of

**Pauline E. Ashton**  
Mr. Robert J. Ashton

**Betty H. Astroth**  
Carlos Garzah

**Dona L. Ball**  
Robert and Sharon Baldwin  
Reuben Bostron Farms Inc.

**Hank Bauer**  
June Shaw

**Gladys Bequette**  
Ann Case and Ginny Johnson

**Kathleen M. Bibbins**  
Jan Findley  
Patrice Mathews and Mark Wunsch  
Lisa McGiveron

**John A. Blumenfeld**  
Charles and Sarah Dayton

**Sadie M. and Sidney S. Cohen**  
Mrs. Helen Gabriel

**Judy Coons**  
Dr. and Mrs. Ronald Kahney

**Rosalie Cooper**  
Jeff Binder  
The Exercise Coach  
Roger Heroux  
Jerry and Tammy Jasiek  
Trent Phelps

**Ginger Cornelius**  
Leah Ann and David Fleisher  
Mr. and Mrs. Mark Kiehl  
Andrew and Denise Miller

**Elaine Goble Dandridge**  
Anonymous

**Karen Dreher**  
Dr. and Mrs. David Jacob

**Judith Dyer**  
Anonymous  
Marshall and Faye Dyer  
SAS Institute, Inc.

**Isaac Eleini**  
Paul and Terry Flotken

**Ann Elise Foy**  
Malcolm Bliss

**Patricia Gausch**  
Jack, Erich, and Dana Gausch

**Pauline Goodrich**  
Julie Neago  
Steve and Rita Neago

**Jean Hacala**  
Ralph Soebbing

**Crystal Haynes**  
Nancy Noedel and Kelly Baumer

**Betty James**  
Ann Case  
Nora Stern and the Driver Family

**Mrs. Jeanne V. Kerwin**  
The Garden Appreciation Club

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Christy Lucas  
Melissa Lucas  
Nick Lucas  
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Lauren Repole

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**Claude B. Martin**  
Katharine Stoever

**John W. McCormack**  
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Post 824

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Mr. and Mrs. James Lemonds  
Mr. and Mrs. Rick Wilhelm

**Bob and Betty Nellums**  
Peggy and Tony Carter

**Gail Osten**  
Mrs. Jaim Suydam

**Kathryn Oughton**  
C. Dennis Kemper  
Kathy Oughton's Sons—Adam and Zach  
F. Dale and Linda Whitten

**Gloria Portnoy**  
Judy, Vicki, and family  
Desiree and family

**Ms. Alma Reitz**  
Ann Case  
Earl and Cindy Grothman  
Mary and John Heidbreder  
The Laiderman Law Firm, P.C.  
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Peter Meissner  
Dr. and Mrs. Leon R. Robison III  
Arthur Scharff  
Mr. and Mrs. William Stern

**Marilee Sams**  
Mrs. Bonnie J. Morse

**Dorothy Schuchardt**  
Mr. and Mrs. Craig S. Kennedy

**Dorothy Stephens**  
Mr. Roy Pfautch

**Dr. John A. Stephens**  
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**Valier Stewart**  
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**Edna Tebeau**  
Marian Williams

**Harold Thomas**  
James Maher

**Gerry Thompson**  
Mr. James Thompson

**Anne von Brecht**  
Ms. Ann T. Eggebrecht

**Carl A. Wattenberg, Jr.**  
Mary Weir and Martha Adams  
Robert Arrowhead and Evelyn Bock, DVM  
Community Property Management  
Field Pointe Condominium  
Bob and Joyce Stuart

**O. Sage Wightman III**  
Mr. Clarence C. Barksdale  
Cynthia and Walter Metcalfe  
Mrs. Nora R. Stern

**Raymond B. Wilson**  
George Solovic and family

**Elaine Carp Wolff**  
Mrs. Bonnie J. Morse

## MEMBERS ENTRY COURT

April–June 2019  
For more information, call (314) 577-5118 or visit [mobot.org/donate](http://mobot.org/donate).

## Engraved Bricks

**Glenn J. Davis**  
Anonymous

**Joan L. Dillon**  
Sam Lightner, Jr. and Liz Lightner

**Mary Lou Ferry**  
Robin Hudson

**Marian K. Flowers**  
Sam Lightner, Jr. and Liz Lightner

**Ann Elise Foy**  
Cheryl Bauer Bartnett

**Dr. and Mrs. Homer Hanson**  
Dr. and Mrs. Homer Hanson

**Eddie and Joanie Hartzke**  
Frank and Daphan Fox  
Tony and Mary Ann Knizel

**John J. Hogan**  
Ann Hogan  
Mike Hogan  
Terri Smith

**Fred Kraus and Gayle Jackson**  
Caroline Kraus  
Grant Kraus  
Madeleine Kraus

**Elizabeth W. Lightner**  
Sam Lightner, Jr. and Liz Lightner

**Missouri Botanical Garden Docents**  
Anonymous

**Annabelle L. Oros-DeDonna**  
Mr. and Mrs. Franklin Oros

**Lynne M. Seacord**  
David, Amanda, Molly, Mark, and Julia

**Sumit K. Sengupta**  
Dr. and Mrs. Alok Sengupta

**Sandra Sheldon**  
Greg Ernst

**Grace and Ray Stoltz**  
Grace and Ray's Daughters

**Gary and Marilyn Suedmeyer**  
Beth Suedmeyer

**Adrianne and Fred Vansaghi**  
Krista Lynn Herrmann

**Elizabeth A. Wattenberg**  
Sam Lightner, Jr. and Liz Lightner

**Carl A. Wattenberg, Jr.**  
Sam Lightner, Jr. and Liz Lightner

## BUTTERFLY HOUSE

April–June 2019.  
For more information, call (314) 577-5118 or visit [butterflyhouse.org/donate](http://butterflyhouse.org/donate).

## Engraved Pavers

**American Medical Response—Abbott EMS**  
East Region  
Communications

**Ms. Peggy Cole**  
Her Nieces and Nephews

**First Church of Christ Scientist**  
First Church of Christ Scientist

**Claire Gresham**  
Anonymous

**Mimi and Pappy**  
Mr. and Mrs. Salvatore Cusumano

**Elaine Niederbremer**  
John and Sharon O'Rourke  
Karen Graves and Laurie Kornfeld

**Imogene Thorne**  
Joyce George

**Marlyn Wilcoxon**  
Lisa Richards



# commemorative gifts



## In Memoriam: O. Sage Wightman III

The Garden honors the service of Emeritus Trustee Orrin Sage Wightman III, who passed away this May. Sage and his wife Letitia have been personally invested in the Garden since the 1970s. He joined the Garden's Board of Trustees in 1983 and served as Chair of the Board from 1991 to 1992. Sage was involved with several major initiatives of the Garden throughout the years, and the William T. Kemper Center for Home Gardening was built during his tenure as Board Chair.

Sage's leadership extended to chairing several Board committees, including the Shaw Nature Reserve advisory board, Finance Committee, and Nominating Committee. In addition to this personal leadership, Sage provided foundational support for growth through annual operating gifts and capital campaigns. He also supported the endowment for the Peter H. Raven Library, the development of the Flora of North America, and other mission-critical projects.

The Garden has benefitted greatly from Sage's acumen, guidance, and investment in our mission. We are grateful for his governance and decades of friendship.

## Travel with the Garden in 2020

You are invited to join Garden leaders on small-group tours of botanical gardens and historic sites around the world. Enjoy first-class accommodations and itineraries that highlight the history, culture, architecture, art, cuisine, and gardens in some of the loveliest places on Earth.

### March 7–16, 2020

Peru: Ancient Land of Mysteries with Dr. Quinn Long, Director of Shaw Nature Reserve

### May 30–June 8, 2020

Splendid Irish Gardens with Dr. Peter Wyse Jackson, President of the Missouri Botanical Garden

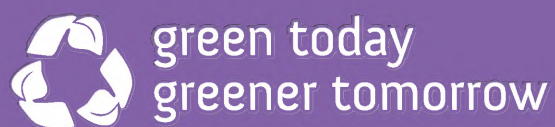
### July 16–30, 2020

Grand Danube Passage: Prague to Sofia with Andrew Wyatt, Vice President of Horticulture and Living Collections

Visit [mobot.org/travel](http://mobot.org/travel) for full trip brochures, pricing, and contact information.







The Missouri Botanical Garden strives to make the most sustainable choices possible to benefit people, plants, and the planet. That's why we offer an interactive online version of the *Bulletin* as well as a downloadable PDF. Sign up by sending an email to [membership@mobot.org](mailto:membership@mobot.org). Let us know if you'd like to forego your paper subscription.

You can also send an email if:

- Your name is misspelled
- Your address is incorrect
- You receive more than one copy
- You no longer wish to receive the *Bulletin*



MISSOURI BOTANICAL GARDEN  
4344 Shaw Blvd. • St. Louis, MO 63110

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# GARDEN PARTY LIGHTS

Thursdays–Sundays  
now–October 19

Sponsored by Pohlmann Legacy  
and Renewal by Andersen

## SAVE UP TO \$20

On your next visit  
to Garden Party  
Lights when you  
buy tickets online  
with coupon code  
GPL5OFF.

See page 5 for details.

photography by Erik Anderson



# BEST OF *Missouri* *market*

October 4 | noon–8 p.m.  
October 5–6 | 9 a.m.–5 p.m.

Over 120 regional food producers and crafters offer fresh produce, baked goods, local wines, beers and cocktails, fresh and dried flowers, herbs, handcrafted items, baskets, custom jewelry, and more.



Sponsored by Anthem Blue Cross and Blue Shield; The Boeing Company; The Home Depot; Ketel One Botanical; *Missouri Life* Magazine, Nora R. Stern; Renewal by Andersen; Schnuck Markets, Inc.; and Waterway Carwash.

[mobot.org/memberevents](http://mobot.org/memberevents)

MISSOURI BOTANICAL GARDEN

## calendar

[mobot.org/events](http://mobot.org/events)

september | october | november

### Garden Party Lights

Thursdays–Sundays,  
now–October 19

Kids just \$3 every evening!

Sponsored by Pohlmann Legacy  
and Renewal by Andersen



[mobot.org/gardenpartylights](http://mobot.org/gardenpartylights)



THANK  
YOU

### Member Appreciation Days November 11–17

Exclusive offers | Special events

This November, we're saying  
"Thank you!" for your generous support.

Highlights include:

- 20% off membership
- 10% off in Sassafras
- free holiday decorating event on November 12, special tours, and more.

[mobot.org/memberappreciation](http://mobot.org/memberappreciation)



### Shaw Nature Reserve Wildflower Market

September 6 | 2–7 p.m.

Free for members

Shop the largest selection of native Missouri  
wildflowers in the St. Louis area.

### annual **ART** show

November 2–3 |  
10 a.m.–4 p.m.

Shaw Nature Reserve  
Free for members

Enjoy fall color and stock  
up on holiday gifts from  
hundreds of local artists  
at this special event at  
Shaw Nature Reserve.



[shawnature.org](http://shawnature.org)



# september 2019

average temperature: low 61° | high 81°  
average precipitation: 4.17 in.

### What’s in bloom?



|           |                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------|
| 8/31–9/2  | Japanese Festival  <br>August 31: 10 a.m.–8 p.m.   \$<br>September 1: 10 a.m.–8 p.m.   \$<br>September 2: 10 a.m.–5 p.m.   \$ |
| 9/5–9/8   | Garden Party Lights   6–10 p.m.   \$                                                                                          |
| 9/6       | Shaw Wildflower Market   2–7 p.m.   \$ SNR                                                                                    |
| 9/10      | Members Speaker Series: Viticulture 101  <br>11 a.m.–noon     ST                                                              |
| 9/12–9/15 | Garden Party Lights   6–10 p.m.   \$                                                                                          |
| 9/18      | Evelyn E. Newman Founder’s Day Celebration  <br>10 a.m.–4 p.m.   BH                                                           |
| 9/19–9/22 | Garden Party Lights   6–10 p.m.   \$                                                                                          |
| 9/26–9/29 | Garden Party Lights   6–10 p.m.   \$                                                                                          |
| 9/28      | Little Shop Around the Corner Customer<br>Appreciation Sale   10 a.m.–4 p.m.   LSAC                                           |

# october 2019

average temperature: low 50° | high 70°  
average precipitation: 3.35 in.

### What’s in bloom?



|             |                                                                                                                                                                                                                           |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10/1–10/31  | Booterfly House   10 a.m.–4 p.m. (closed on<br>Mondays)   BH                                                                                                                                                              |
| 10/4–10/6   | Best of Missouri Market<br>October 4: noon–8 p.m.   \$ ( <i>Garden closed in the morning</i> )<br>October 5:  Members-only shopping hour   8–9 a.m.<br>Public hours   9 a.m.–5 p.m.   \$<br>October 6: 9 a.m.–5 p.m.   \$ |
| 10/4        | Wicked Wings and Wine   5:30–7:30 p.m.    \$ BH                                                                                                                                                                           |
| 10/10–10/13 | Garden Party Lights   6–10 p.m.   \$                                                                                                                                                                                      |
| 10/11       | Wicked Wings and Wine   5:30–7:30 p.m.    \$ BH                                                                                                                                                                           |
| 10/13       | Scorpions, Spiders, and Owls...Oh My!   5–6 p.m.  <br>\$ BH                                                                                                                                                               |
| 10/15       | Members Speaker Series: Walking in<br>Humboldt’s Footsteps   11 a.m.–noon     ST                                                                                                                                          |
| 10/17–10/19 | Garden Party Lights   6–10 p.m.   \$                                                                                                                                                                                      |
| 10/25       | Spirits in the Garden   6–9 p.m.   \$<br><i>Presented by Ketel One Botanical</i>                                                                                                                                          |
| 10/26       | Bug Ball   5:30–7:30 p.m.    \$ BH                                                                                                                                                                                        |
| 10/27       | Ghouls in the Garden   11 a.m.–1:30 p.m.  <br><i>Presented by Macy’s</i>                                                                                                                                                  |
| 10/27–11/3  | Tree Week   9 a.m.–4 p.m.                                                                                                                                                                                                 |



# november 2019

average temperature: low 39° | high 57°  
average precipitation: 3.62 in.

### What’s in bloom?



|             |                                                                                                                                                            |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10/27–11/3  | Tree Week   9 a.m.–4 p.m.                                                                                                                                  |
| 11/2–11/3   | Doris I. Schnuck Children’s Garden Seasonal<br>Closing   9 a.m.–3 p.m.   \$ CHD<br>Shaw Nature Reserve Annual Art Show  <br>10 a.m.–4 p.m.   SNR           |
| 11/5–12/31  | Winter Jewels   10 a.m.–4 p.m. (closed on<br>Mondays, Thanksgiving, Christmas Eve, and<br>Christmas Day)   BH                                              |
| 11/5–12/31  | Books and Butterflies   11 a.m. Tuesdays–Fridays<br>(closed on Mondays, Thanksgiving, Christmas Eve,<br>and Christmas Day)   BH                            |
| 11/11–11/17 | Member Appreciation Days                                                                                                                                   |
| 11/12       | Little Shop Around the Corner Holiday Open<br>House   10 a.m.–5 p.m.   LSAC<br>Member Speaker Series: Holiday Decorating  <br>11 a.m. and 2:30 p.m.     ST |
| 11/14       | Bascom House Tours   10 a.m. and 11 a.m.  <br>SNR                                                                                                          |
| 11/17       | Butterfly House Member Morning: Winter<br>Jewels   9–10 a.m.    BH                                                                                         |
| 11/19–24    | Little Shop Around the Corner Silverplate and<br>China Sale   10 a.m.–4 p.m. Tuesday–Friday;<br>noon–4 p.m. Sunday   LSAC                                  |
| 11/20–1/4   | Holiday Wreath Display and Auction  <br>9 a.m.–4 p.m.   RVC                                                                                                |
| 11/22       | Garden Glow Member Preview   5–10 p.m.  <br>\$    <i>Presented by Wells Fargo Advisors</i>                                                                 |
| 11/23–12/29 | Victorian Christmas at Tower Grove House  <br>Wednesdays–Sundays   10 a.m.–4 p.m.                                                                          |
| 11/23–1/1   | Gardenland Express   9 a.m.–4 p.m.   RVC   \$<br><i>Presented by Wells Fargo Advisors</i>                                                                  |
| 11/23–1/4   | Garden Glow   5–10 p.m.   closed Christmas Eve and<br>Christmas Day   \$   <i>Presented by Wells Fargo Advisors</i>                                        |



### How do I protect my rose bushes from winter damage?

Properly winterizing rose bushes can help prevent damage from cycles of freezing and thawing in autumn and cold winds in winter. To ready plants for dormancy, stop deadheading around October 1 and allow rose hips to form. Selectively prune out diseased and damaged canes after the first frost of 28°F or lower. Do not prune before this, as any new growth that emerges will not survive the winter. To protect the graft and tender buds, mound topsoil, compost, or shredded bark mulch around the base of rose bushes. This insulating mound should be around one foot high and almost completely cover the rose canes. But do not cover your roses too early in the season. Wait until most of the leaves have fallen off and there has been at least one hard frost of less than 20°F. Insulating plastic "rose cones" are also available but need to be properly ventilated to prevent heat from building up around the plant on sunny days. These cones should also be weighed down with bricks or stones to keep them from being blown away.

For more advice, tips, and resources visit [gardeninghelp.org](http://gardeninghelp.org).



### Plant Societies’ Shows and Sales

Get the latest information about your favorite plant society’s show and sale by visiting [mobot.org/plantsocieties](http://mobot.org/plantsocieties).

|                                                                            |                                            |     |                                             |
|----------------------------------------------------------------------------|--------------------------------------------|-----|---------------------------------------------|
| Key ( <i>All events take place at the Garden unless otherwise noted.</i> ) |                                            |     |                                             |
| BH                                                                         | Butterfly House                            | KC  | Kemper Center for Home Gardening            |
| BHGS                                                                       | Butterfly House Gift Shop                  | LS  | Little Shop Around the Corner               |
| CA                                                                         | Cohen Amphitheater                         | MC  | Monsanto Research Center                    |
| CBEC                                                                       | Commerce Bank Center for Science Education | MH  | Monsanto Hall (in RVC)                      |
| CHD                                                                        | Children’s Garden                          | RVC | Ridgway Visitor Center                      |
| CL                                                                         | Climatron lawn                             | SNR | Shaw Nature Reserve                         |
| GGs                                                                        | Garden Gate Shop                           | SP  | Spink Pavilion                              |
| JE                                                                         | Jordan Education Wing (in RVC)             | ST  | Shoenberg Theater (in RVC)                  |
|                                                                            | Members-only event                         |     | Double punches at Garden Gate Shop          |
|                                                                            | Double punches at Garden Gate Shop         |     | Double punches at Butterfly House Gift Shop |
|                                                                            | Reservations required                      |     | Fee required                                |

photos by (front) Jessica Du, Lisa DeLorenzo Hager, Mary Lou Olson, and Sundos Schneider.  
(this page) Claire Cohen, Karen Fletcher, Tom Incrocci, Robin Powell, and Sundos Schneider.